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A GENERAL
SYSTEM OF NATURE.

VOL. VI.

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A GENERAL
SYSTEM OF NATURE

VOL. VI

A GENERAL
SYSTEM OF NATURE,
THROUGH THE
THREE GRAND KINGDOMS
OF
ANIMALS, VEGETABLES, AND MINERALS,
SYSTEMATICALLY DIVIDED
INTO THEIR SEVERAL
CLASSES, ORDERS, GENERA, SPECIES, AND VARIETIES,
WITH THEIR
HABITATIONS, MANNERS, ECONOMY, STRUCTURE,
AND PECULIARITIES.

BY SIR CHARLES LINNÉ:

Translated from GMELIN, FABRICIUS, WILLDENOW, &c.

TOGETHER WITH

Various Modern Arrangements and Corrections, derived from the
Transactions of the Linnean and other Societies, as well as from the Classical
Works of Shaw, Thornton, Abbot, Donovan, Sowerby, Latham, Dillwyn,
Lewin, Martyn, Andrews, Lambert, &c. &c.

WITH A LIFE OF LINNÉ,

Appropriate Copper-plates, and a Dictionary explanatory of the Terms which
occur in the several Departments of Natural History,

BY WILLIAM TURTON, M. D.

Fellow of the Linnean Society, Author of the Medical Glossary, &c. &c.

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IN SEVEN VOLUMES.

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Vegetable Kingdom.—VOL. II.

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CLASS XIV. DIDYNAMIA.

ORDER I. GYMNOSPERMIA.

A. *Calyx mostly 5-cleft.*

1134. PERILLA. *Styles 2: stamina distant.*
 1136. GLECHOMA. *Each pair of antheræ forming a cross.*
 1127. HYSSOPUS. *Filaments distant, straight: corol ringent, the lower-lip 3-parted and slightly crenate.*
 1129. ELSHOLTZIA. *Filaments distant, straight: corol ringent, the the lower-lip undivided:*
 1132. EYSTROPOGON. *Filaments distant, straight: corol ringent; the lower-lip 3-lobed.*
 1133. MENTHA. *Filaments distant, straight: corol nearly equal.*
 1135. HYPTIS. *Filaments declined: corol ringent; the upper lip cloven; lower-lip 3-cleft, with the middle segment concave.*
 1131. SIDERITIS. *One stigma sheathing the other.*
 1124. WESTRINGIA. *Corol reversed: filaments distant, the 2 shorter ones abortive.*
 1130. LAVANDULA. *Corol reversed: filaments all fertile.*
 1123. TEUCRIUM. *Corol without any upper-lip; but the upper side of the tube divided below its base and divaricate.*
 1122. AJUGA. *Corol with the upper-lip very minute and much shorter than the stamina.*
 1146. PHLOMIS. *Corol with the upper-lip hairy, compressed, incumbent, obsoletely cloven.*
 1145. LEONURUS. *Corol with the upper-lip hairy, concave, erect, undivided: stamina longer than the orifice.*
 1140. BETONICA. *Corol with the upper-lip flat, ascending; the tube cylindrical: stamina as long as the orifice.*
 1137. LAMIAM. *Corol with the lower-lip toothed each side at the base.*

1138. GALEOPSIS. Corol with the lower-lip 2-toothed on the upper side.
1139. GALEOBDOLOM. Corol with the lower-lip divided into 3 acute segments.
1141. STACHYS. Corol with the lateral segments of the lower-lip reflected at the sides: *stamina* when old bent outwards.
1142. BROTERA. Corol with the middle segment of the lower-lip hooded, inclosing the *stamina* and style.
1128. NEPETA. Corol with the lower-lip crenate, the orifice reflected at the margin.
1125. SATUREIA. Corol with nearly equal segments: *stamina* distant.
1143. BALLOTA. Calyx 10-striate: corol with the upper-lip vaulted.
1144. MARRUBIUM. Calyx 10-striate: corol with the upper-lip straight and cloven.
1147. MOLUCCELLA. Calyx campanulate, larger than the corol, with spinous teeth.

A few species of *Verbena*. *Monarda didyma*.

B. Calyxes 2-lipped.

1157. SCUTELLARIA. Calyx closed with a lid after flowering.
1150. THYMUS. Calyx closed at the orifice with hairs.
1155. PLECTRANTHUS. Corol reversed, gibbous or spurred upwards at the base: *filaments* subulate.
1154. OCIMUM. Corol reversed, naked at the base: 2 of the *filaments* with a process at the base.
1158. PRUNELLA. *Filaments* all forked at the tip.
1159. CLEONIA. *Stigmata* 4.
1156. TRICHOSTEMA. *Filaments* very long.
1152. DRACOCEPHALUM. Corol with an inflated throat.
1149. ORIGANUM. Calyxes collected into a cone by imbricate bractes.
1148. CLINOPODIUM. Calyxes collected by a many-bristled involucre placed under the whorl.
1126. THYMBRA. Calyx carinate by a ciliate line each side: style semibifid: lips of the corol flat.
1153. MELITTIS. Calyx wider than the tube of the corol: upper lip of the corol flat, entire: *antheræ* adhering cross-wise.
1151. MELISSA. Calyx angular, scarious, with the upper-lip ascending.
1160. PRASIMUM. Seeds berried.

1161. PHRYMA. Seed solitary: corol ringent.
 1162. SELAGO. Seed solitary: corol with a 5-cleft unequal border.

ORDER II. ANGIOSPERMIA.

A. Calyxes undivided.

1218. ÆGINETIA. Capsule many-celled: corol campanulate: calyx undivided, spathaceous.
 1194. TANÆCIUM. Berry covered with a bark: corol tubular, nearly equal: calyx tubular, truncate.

B. Calyxes bifid.

1217. OBOLARIA. Capsule 1-celled: corol campanulate, 4-cleft: filaments from the divisions of the corol
 1219. OROBANCHE. Capsule 1-celled: corol ringent: gland under the base of the germ.
 1205. HEBENSTREITIA. Capsule 2-seeded: corol 1-lipped, 4-cleft: stamina inserted into the lateral margin of the corol.
 1182. TORENIA. Capsule 2-celled: corol personate: filaments approaching in pairs archwise.
 1238. CASTILLEIA. Capsule 2-celled: corol 2-lipped; the lower-lip very short: calyx 1-lipped, 2-toothed.
 1244. ACANTHUS. Capsule 2-celled: corol 1-lipped, 3-cleft: antheræ villous.
 1197. PREMNA. Drupe 1-seeded, with a 4-celled nut: corol 4-cleft, unequal.
 1193. CRESCENTIA. Berry 1-celled, covered with a bark: corol with a gibbous crooked tube: germ pedicelled.

C. Calyx 3-cleft.

1192. HALLERIA. Berry 2-celled: corol 4-cleft; the upper-lip longer.

D. Calyxes 4-cleft.

1222. LIPPIA. Capsule 2-seeded, 2-celled: corol salver-shaped: calyx compressed.
 1167. LATHRÆA. Capsule 1-celled: corol personate: gland under the germ.
 1163. BARTSIA. Capsule 2-celled: corol personate: calyx coloured: seeds angular.

1165. EUPHRASIA. Capsule 2-celled: corol personate: anthera spinous: seeds striate.
1164. RHINANTHUS. Capsule 2-celled: corol personate: seeds flat, imbricate.
1166. MELAMPYRUM. Capsule 2-celled: corol personate: seeds 2, gibbous, smooth.
1168. SCHWALBEA. Capsule 2-celled: corol personate: seeds numerous, chaffy, lanceolate
1229. BARLERIA. Capsule 2-celled, elastic: corol funnel-form: seeds 2.
1201. LOESELIA. Capsule 3-celled: segments of the corol leaning one way: stamina reflected contrary to the corol.
1195. GMELINA. Drupe with a 2 celled nut: corol 2 lipped: 2 of the anthera thicker and 2-parted; 2 of them simple.
1198. LANTANA. Drupe with a 2-celled nut: corol salver-shaped: stigma hooked.

E. Calyxes 5-lobed.

1242. AVICENNIA. Capsule 1-celled, coriaceous: corol with the upper-lip square: seed solitary.
1169. TOZZIA. Capsule 1-celled: corol salver-shaped: seed solitary.
1212. PHAYLOPSIS. Capsule 1-celled: corol ringent, with the upper-lip very minute: seeds 4.
1211. LIMOSELLA. Capsule 1-celled: corol campanulate, nearly regular: seeds numerous.
1208. BROWALLIA. Capsule 1-celled: corol salver-shaped: seeds numerous.
1184. BRUNFELSIA. Capsule 1-celled, berried: corol funnel-form.
1226. HOLMSKIOLDIA. Capsule 1-celled? corol ringent: calyx dilated.
1203. LINDERNIA. Capsule 1-celled: corol ringent: lower stamina with each a terminal tooth.
1215. CONOBEA. Capsule 1-celled: corol ringent: style hairy.
1243. COLUMNEA. Capsule 1-celled: corol ringent, gibbous above the base: anthera cohering.
1213. VANDELIA. Capsule 1-celled: corol ringent: lower stamina growing from the disk of the lip.
1214. RUSSELLIA. Capsule 1-celled: corol 2-lipped.
1246. ALECTRA. Capsule 2-celled, double: corol funnel-form: filaments bearded: seeds solitary.
1176. GESNERIA. Capsule 2-celled, inferior: corol incurved and recurved.

1174. CYRILLA. Capsule 2-celled: corol declined: filaments with the rudiment of a fifth.
1185. SCROPHULARIA. Capsule 2-celled: corol reversed; the middle segment of the lip placed internally.
1216. STEMODIA. Capsule 2-celled: corol unequal: staminate; antheræ double.
1223. ACHIMENES. Capsule 2-celled: corol nearly equal, 4-cleft: antheræ cohering.
1186. CELSIA. Capsule 2-celled: corol wheel-shaped: filaments woolly.
1187. HEMIMERIS. Capsule 2-celled: corol wheel-shaped, ringent, gibbous at the base: filaments glabrous.
1210. SIETHORPIA. Capsule 2-celled, with transverse partitions: corol wheel-shaped: stamina approaching each other in pairs.
1202. CAPRARIA. Capsule 2-celled: corol campanulate: stigma heart-shaped, 2-valved.
1188. DIGITALIS. Capsule 2-celled: corol campanulate, swelling underneath: stamina declined.
1190. BIGNONIA. Capsule 2-celled: corol campanulate: seeds imbricate, winged: filaments with the rudiment of a fifth.
1189. INCARVILLEA. Capsule 2-celled: corol campanulate: seeds winged: filaments without the rudiment of a fifth.
1228. RUELLIA. Capsule 2-celled: corol campanulate: stamina approaching each other in pairs.
1207. BUCHNERA. Capsule 2-celled: corol salver-shaped, with inversely heart-shaped equal lobes.
1206. ERINUS. Capsule 2-celled: corol 2-lipped; the upper-lip very short and reflected.
1196. PETREA. Capsule 2-celled: corol wheel shaped, less than the coloured calyx: seeds solitary.
1204. MANULEA. Capsule 2-celled: corol with a 5-parted border; the lowest division deeper and reflected.
1177. ANTIRRHINUM. Capsule 2-celled: corol personate, with a prominent nectary underneath.
1178. ANARRHINUM. Capsule 2-celled, many-valved: corol 2-lipped, with the orifice pervious.
1171. GERARDIA. Capsule 2-celled, bursting from the base: corol salver-shaped, unequal.
1170. PEDICULARIS. Capsule 2-celled, pointed, oblique: corol personate, with the upper-lip compressed.

1227. *MIMULUS*. Capsule 2-celled: corol personate: calyx prismatic
1221. *DODARTIA*. Capsule 2-celled: corol personate, with the upper-lip short and ascending.
1172. *CHELONE*. Capsule 2-celled: corol personate, inflated, closed: filaments with the rudiment of a fifth glabrous one.
1173. *PENTSTEMON*. Capsule 2-celled: corol personate, swelling: filaments with the rudiment of a fifth bearded one.
1224. *SESAMUM*. Capsule 2-celled: corol campanulate, unequal: filaments with the rudiment of a fifth.
1175. *GLOXINIA*. Capsule imperfectly 2-celled: corol campanulate: filaments with the rudiment of a fifth inserted with the rest into the receptacle.
1180. *TOURRETTIA*. Capsule 4-celled, hooked: corol 1-lipped.
1181. *MARTYNIA*. Capsule 4-celled: corol campanulate: filaments with the rudiment of a fifth.
1237. *MAURANDIA*. Capsules 2, united, imperfectly 5-valved at top: corol campanulate, unequal: filaments callous at the base.
1233. *MALLINGTONIA*. Silique? corol regular, 4-cleft: antheræ differently shaped.
1225. *STREPTIUM*. Nuts 2, 2-celled, externally wrinkled: corol with a cylindrical tube twisted near the top.
1247. *PEDALIUM*. Nut 2-celled, corky, 4-fided, spinous at the angles.
1209. *LINNÆA*. Berry 3-celled, dry: corol campanulate: calyx superior.
1200. *CORNUTIA*. Berry 1-seeded: corol ringent: style very long.
1232. *OVIDIA*. Berry 4-seeded: corol very long, with the border 3-cleft: calyx of the fruit campanulate.
1240. *AMASONIA*. Berry 4-seeded: corol nearly equal.
1183. *BESLERIA*. Berry many-seeded, 1-celled: corol unequal.
1241. *BONTIA*. Drupe 1-seeded: corol with the lower-lip revolute: seed plaited.
1199. *SPIELMANNIA*. Drupe 1-seeded, with a 2-celled nut: corol salver-shaped.
1239. *VITEX*. Drupe 1-seeded, with a 4-celled nut: corol ringent; the upper-lip 3-cleft.
1231. *MYOPORUM*. Drupe 2-seeded, with a 2-celled nut: corol campanulate, nearly equal.

1191. CITHAREXYLON. *Drupe* 2-seeded, with a 2-celled nut: *corol* funnel-form, nearly equal.
1234. VOLKAMERIA. *Drupe* 2-seeded, with a 2-celled nut: *corol* salver-shaped, with the segments pointing one way.
1235. CLERODENDRON. *Drupe* 4-seeded, with a 1-celled nut: *corol* 2-lipped.
1230. DURANTIA. *Drupe* 4-seeded, with a 2-celled nut: *corol* nearly regular; the tube curved.

+ *Gratiola Monnieria*.

F. *Calyxes many-cleft.*

1220. HYOBANCHE. *Capsule* 2-celled: *corol* 1-lipped: *calyx* 7-leaved.
1245. LEPIDAGATHIS. *Capsule* 2-celled: *corol* 2-lipped: *calyx* many-leaved, imbricate.
1179. CYMBARIA. *Capsule* 2-celled: *corol* ringent: *calyx* 10-toothed.
1236. THUNBERGIA. *Capsule* 2-celled: *corol* campanulate: *calyx* double; the outer 2-leaved; inner 12-toothed.

G. *Petals more than 1.*

1248. MELIANTHUS. *Capsule* 4-celled, 4-lobed: *petals* 4, forming the lower lip.

ORDER I. GYMNOSPERMIA: *Seeds naked*.

1122. *AJUGA*. *Corol* with the upper-lip very minute and emarginate: *stamina* longer than the upper-lip.

A. *Bugles*.

- orientalis*. Leaves ovate: corols pubescent, reversed.
The East. *Hort. Rom* 3 t. 100. *Dill. elth.* t. 53. f. 61.
Stem brownish purple: leaves downy underneath.
- decumbens*. Decumbent, villous: leaves ovate, toothed.
Japan. *Thunb. Jap.* 243. *Willd.* 3. p. 8.
Flowers whorled, blue; the corols not reversed.
- pyramidalis*. Spike a quadrangular villous pyramid: root-leaves very large.
Europe. *Flor. Dan.* t. 185. *Ludw. est.* t. 8.
- * *alpina*. Stem simple: leaves unequally toothed; those of the stem nearly as large as the radical ones.
Alps. *Eng. Bot.* t. 477. *Pet. H. Brit.* t. 34. f. 4.
- genawensis*. Leaves downy; the radical ones less than those of the stem.
Europe. *Riv. Monop.* t. 140. f. 2.
Stem simple: floral-leaves generally 3-lobed.
- * *repans*. Stem solitary: shoots creeping.
Woods. *Eng. Bot.* t. 489. *Curt. Lond. fasc.* 2. t. 43.

B. *Ground Pines*.

- * *Chamæpitys*. Stem diffuse, branched: leaves trifid, linear, entire: flowers axillary, solitary, shorter than the leaf.
Teucrium Chamæpitys. *Sp. p. Hudf. Relb.*
Sandy fields. *Eng. Bot.* t. 77. *Fl. Dan.* t. 733. *Bl.* t. 528.
- Chia*. Stem diffuse: leaves trifid, linear, entire: flowers axillary, solitary, longer than the leaf.
Chio. *Schreb. unilab.* p. 25. *Willd.* 3. p. 11.
- Iva*. Leaves linear, toothed on the fore-part: flowers axillary, solitary.
South of Europe. *Cavan. ic.* 2. p. 18. t. 120.
- salicifolia*. Leaves lance-elliptic, rather obtuse, very entire: calyxes solitary, 4-cleft.
Armenia. *Schreb. dec. pl.* 1. p. 17. t. 9. *Teucrium*.
Stem diffuse, pubescent: leaves entire, naked: corol pale yellow with 5 red streaks.

1123. *TEUCRIUM*. Upper-lip of the corol divided below the base and divaricate: *stamina* projecting from the fissure of the upper-lip.

Germander.

- campanulatum*. Leaves many-cleft: flowers lateral, solitary.
The East. *Riv. mon.* t. 24. *Tul. pis.* t. 49 f. 1.
Plant glabrous: peduncles shorter than the flowers.
- lævigatum*. Lower-leaves many-cleft: upper-ones 3-parted: peduncles solitary, as long as the leaves.
Bonaria. *Vahl. symb.* 1. p. 40. *Willd.* 3. p. 13.
- orientale*. Leaves many-cleft, linear: raceme compound: pedicels very short.
Armenia. *Comm. rar.* t. 25. *Riv. mon.* t. 19.
- parviflorum*. Leaves many-cleft, linear: raceme decomposed: pedicels elongated, divaricate.
Armenia. *Schreb. unibal.* 31. n. 18. icon.
Corol hardly longer than the calyx.
- Botrys*. Leaves many-cleft: flowers axillary, 3 together, peduncled.
South of Europe. *Miller fig.* 264. *Riv. Mon.* t. 14.
Whorls shorter than the leaves, lax, 5—8-flowered.
- nissolianum*. Leaves 3 and 5-cleft, filiform: flowers peduncled, solitary, opposite: stem decumbent.
Spain: Portugal. *Morif.* 3. sect. 11. t. 22. f. 19.
- trifidum*. Leaves lanceolate, 3-cleft: peduncles axillary, 3-flowered.
The Cape. *Retz. obs.* 1. p. 21. *Willd.* 3 p. 15.
Leaves rough above, clothed with fine down beneath.
- Pseudo-chamaepitys*. Leaves 3-parted, trifid, linear: flowers racemed: stem hairy.
Spain: Africa. *Morif.* 3. sect. 11. t. 21. f. 2.
2. Leaves many-cleft. *T. mauritanum*, *Sp. pl.*
- fruticans*. Leaves lanceolate, very entire, white downy underneath: flowers solitary.
Europe: Africa. *H. Rom.* t. 96. *Dill. elib.* t. 284. f. 366.
2. Leaves rhombic, acute. *Curt. mag.* t. 245. *Dill.* f. 368.
- brevifolium*. Leaves lanceolate, revolute, very entire, obtuse, hoary: flowers solitary: calyx obtusely toothed.
Crete. *Riv. mon.* t. 20. *Morif.* sect. 11. t. 2. f. 15.
Leaves hoary both sides: peduncles long.
- creticum*. Leaves lance-linear, very entire: flowers racemed, 3 together.
Crete: Egypt. *Morif.* 3. sect. 11. t. 16. f. 3.
Leaves white underneath: calyx spinous.
- Marum*. Leaves very entire, ovate, acute, petioled, downy underneath: racemes pointing one way.
Spain. *Woodv.* t. 56. *Blackw.* t. 47. *Hort. Rom.* t. 90.
Plant fragrant: lower-leaves slightly 3-lobed.
- quadratum*. Leaves ovate-rhombic, toothed, snowy underneath: whorls racemed.
Spain; Barbary. *Desfont. atlant.* 2. p. 4. t. 118.

multiflorum. Leaves oval, toothed on the fore-part; floral ones very entire and petioled: whorls of flowers racemed: stem much branched.

Spain. *Bocc. mus. t. 117. Marum.*

Leaves acute at each end, 2 or 3-toothed at top.

regium. Leaves ovate, toothed on the fore-part; the floral-ones very entire and sessile: whorls of flowers racemed: stem branched.

Spain. *Pluk. alm. 367. t. 365. f. 2.*

Leaves small: corol with long linear auricles.

Laxmanni. Leaves ovate-oblong, villous, mostly entire: flowers axillary, solitary, sessile.

Siberia. *Stem* villous: *leaves* 3-nerved: *corol* striate.

sibiricum. Leaves ovate, ferrate: peduncles solitary, 3-flowered; the middle-one sessile: bractes linear-lanceolate.

Siberia. *Leaves* naked both sides: *peduncles* axillary, 3 or 5-flowered: *stamina* not exerted.

asiaticum. Leaves lanceolate, repand-ferrate, rectangular at the base; flowers solitary.

East Indies? *Jacq. hort. p. 24. t. 41.*

Flowers axillary, on short peduncles, leaning one way.

cubense. Leaves wedge-shaped, cut-ferrate, glabrous, tapering to the petiole: flowers solitary, peduncled.

Cuba. *Jacq. Amer. t. 183. f. 74. Obs. 2. p. 5. r. 30.*

Stem erect, glabrous, inodorous: *flowers* white.

Arduini. Leaves ovate, ferrate: raceme spiked, round, sessile, terminal.

— *Plant* obscurely pubescent: *spike* yellowish.

canadense. Leaves ovate-lanceolate, ferrate: stem erect: raceme round, terminal; with 6-leaved whorls.

Canada. *Leaves* downy underneath: *bractes* ferrate.

virginicum. Leaves ovate, unequally ferrate: racemes terminal: bractes shorter than the peduncle.

Virginia. *Pluk. alm. t. 318. f. 1. bad.*

japonicum. Leaves ovate, doubly ferrate: racemes terminal: bractes as long as the calyx.

Japan. *Pluk. amalib. t. 441. f. 2.*

Leaves rounded at the base: *bractes* linear.

inflatum. Leaves oblong, pointed, unequally ferrate, pubescent: spikes sessile, terminal: calyx inflated, villous.

Jamaica. *Aiton Keav. 2. p. 277. Swartz prodr. 88.*

villosum. Leaves elliptic-ovate, pointed, ferrate, petioled, villous: raceme spiked, terminal: calyx inflated.

Tongatabu. *Forst. prodr. n. 232. Willd. 3. p. 23.*

Bractes lanceolate, acute, as long as the calyx.

hyrcanicum. Leaves heart-oblong, obtuse: stem cross-armed, forked: spikes very long, terminal, sessile, spiral.

Hyrcania. Hall. Comm. Goett. 2. t. 13. Ard. spec. 13. t. 4.
Leaves heart-shaped, crenate, wrinkled: bractes linear.

Abutiloides. Leaves heart-shaped, toothed, pointed: racemes lateral, nodding:
Madeira. Calyx with obtuse teeth.

**Scorodonia*. Leaves heart-shaped, somewhat pubescent, toothed, petioled: racemes lateral, leaning one way: stem erect, herbaceous.

Woods. Curt. Lond. fasc. 5. t. 40. Flor. Dan. t. 485. Bl. t. 9.

Pseudo-Scorodonia. Leaves heart-shaped, hoary underneath, toothed, petioled: racemes lateral, leaning one way: stem erect, shrubby.
Algeira. Desfont. atlant. 2. p. 5, t. 119. Willd. 3. p. 25.

betonicum. Leaves lanceolate, crenate, downy, hoary underneath: racemes terminal: flowering stem cross-armed.
Madeira. Sloane Jam. 1. t. 3. f. 3. Jacq. coll. 1. t. 17. f. 2.

resupinatum. Leaves wedge-lanceolate, ferrate, villous: racemes axillary and terminal: corols reversed.
Africa. Desfont. atl. 2. p. 4 t. 117.
Leaves sessile, wedge-form at the base: flowers on short peduncles: bractes lanceolate, entire, as long as the calyx.

massiliense. Leaves ovate, wrinkled, cut-crenate, hoary: stems erect: racemes straight, leaning one way.
South of France. Jacq. hort. t. 94. Ger. prov. 278. t. 11.
Leaves reflected at the margin: racemes terminal.

Salvias-trum. Leaves ovate, crenulate, wrinkled, downy underneath, petioled: raceme leaning one way.
Portugal. Stem pubescent, a little viscid: corol villous.

**Scordium*. Leaves oblong, sessile, toothed, nearly naked: flowers in pairs, axillary, peduncled: stem diffuse, pubescent.
Marshes. Eng. Bot. t. 828. Woodw. t. 57. Blackw. t. 475.

Scordioides. Leaves oblong, hearted, clasping the stem, crenate, woolly: flowers in pairs, axillary, peduncled.
Crete. Willd. 3. p. 27. Schreb. unilab. 37. n. 30.
Stem and leaves clothed with white wool.

**Chama-drys*. Leaves somewhat ovate, petioled, deeply crenate: flowers axillary, peduncled, 3 together: stem round, hairy.
Old walls. Eng. Bot. t. 680. Woodw. t. 243.

heterophyllum. Leaves elliptic, crenate: flowers lateral, solitary: lip of the corol woolly outwardly: branches with differently coloured leaves.
Madeira. L'Herit. stirp. 1. p. 84. Willd. 3. p. 29.

bracteatum. Leaves heart-shaped, petioled, toothed, pubescent: bractes pedicelled, whorled: flowers 6 in a whorl.

Africa. *Desfont. Atl. 2. t. 120. Willd. 3. p. 29.*

Stem villous: leaves obtuse: bractes 6—8 in a whorl.

lucidum. Leaves ovate, deeply ferrate, glabrous: whorls of flowers reaching half way round: stems erect, smooth:

Alps. *Magn. Hort. t. 52. Act. Pal. 3. t. 12. f. 7—9.*

Flowers axillary, 2 or 3 together: calyx brown.

nitidum. Leaves ovate, crenate; the floral-ones very entire: whorls of flowers reaching half way round, racemed: stem bearded on two sides.

Mauritiana. *Schreb. unilab. p. 35. n. 24.*

Leaves on short petioles, entire at the base.

flavum. Leaves ovate, crenate; the floral-ones very entire: whorls of flowers reaching half way round, racemed: stem shrubby, pubescent.

South of Europe. *Hort. Rom. t. 89. Riv. mon. t. 10.*

montanum. Corymbs terminal: calyx with acute unarmed teeth: leaves lanceolate, very entire, downy underneath.

South of Europe. Stems prostrate: leaves sometimes with a tooth or two: flowers whitish.

supinum. Corymb terminal: calyx with acute teeth ending in a point: leaves linear, very entire, revolute at the edge, downy underneath.

Austria. *Jacq. Austr. 5. t. 417.* Flowers white.

thymifolium. Heads terminal, few-flowered: leaves petioled, ovate, obtuse, downy underneath: stem procumbent.

Spain. *Barr. rar. t. 1062. 2) t. 1087.* Polium.

Stem white, downy. calyx hoary, mucronate.

pyrenaicum. Corymbs terminal: leaves orbicular wedge-form, crenate, hairy.

Pyrenees. Stems procumbent, very hairy.

rotundifolium. Corymbs terminal: leaves roundish, crenate, villous, hoary underneath.

Spain. *Barr. rar. t. 1095. Moris. 3. sect. 11. t. 4. f. 3.*

Stem decumbent or hanging from rocks: leaves small.

buxifolium. Corymbs terminal: leaves oval, wrinkled, crenate at top, villous.

Spain. *Cavan. ic. 2. t. 121. f. 1. Barr. rar. t. 1086.*

aureum. Corymbs terminal, hairy: leaves ovate, ferrate, and with the stems clothed with thick wool; the upper-ones yellow and shining.

Spain. *Cavan. ic. 2. t. 117. Riv. mon. t. 25.*

2. Heads ovate, yellowish downy. *Barr. rar. t. 1082.*

- flavescens*. Heads roundish, downy: leaves linear-lanceolate, crenate on the fore-part, downy; the upper-ones yellow.
South of France. *Barr. rar. t. 1073. Polium.*
Calyx downy: *summits* sulphur yellow.
- gnaphaloides*. Flowers solitary, crowded: leaves linear, revolute, crenate: *calyx* woolly.
Spain. *Bar. rar. t. 1083. Polium.*
Leaves toothed, covered with thick wool both sides.
- Achæmenis*. Corymbs dense: leaves inversely lanceolate, crenate on the fore part, downy, hoary; the floral-ones longer than the flower.
Adriatic shores. *Moris. 3. sect. 11. t. 2. f. 12.*
Stem white downy: *leaves* obtuse at top.
- Polium*. Heads roundish, peduncled: leaves lanceolate, obtuse, crenate, revolute at the edge, downy: stem decumbent.
South of Europe. *Barr. rar. t. 1074. 2) t. 1078.*
- trifoliatum*. Heads roundish, lax: leaves in threes, oblong, revolute, crenate at top, downy.
Spain, Barbary. *Vahl. symb. 1. p. 40.*
Stems hoary: *calyx* downy, obtusely toothed.
- Pseudo-hysopus*. Heads roundish, lax: leaves oblong, crenate at top, downy, hoary: stem woolly, bearing the flowers in a corymb.
Italy, Crete. *Column. ecphr. 1. p. 59. t. 67.*
Calyx angular, woolly: *corol* with a yellow spot.
- valentinum*. Heads roundish, on short peduncles: leaves linear, crenate, stem erect, hoary.
Spain. *Barr. rar. 331. t. 1048.*
Leaves narrow, obtuse, with thin white down.
- capitatum*. Heads roundish, on short peduncles: leaves lanceolate, crenate, downy, snowy: stem erect.
South of Europe. *Cavan. ic. 2. p. 17. t. 119.*
- lusitanicum*. Heads lax: leaves linear, obtuse, crenulate, hoary: stem pubescent, bearing the flowers in a corymb.
Portugal. *Schreb. unilab. n. 59. Willd. 3. p. 38.*
Stem ascending: *leaves* long: *corol* white.
- pycnophyllum*. Heads roundish: leaves linear, revolute, crenate at top, crowded, and with the stem covered with thick down.
Spain. *Barr. rar. t. 1091. 1096.*
Whole plant clothed with very thick down: *stem* procumbent at the base: *calyx* downy.
- verticillatum*. Head roundish, sessile: leaves lanceolate, very entire, revolute, whorled, downy: stem erect, downy.
Spain. *Cavan. ic. 2. p. 77. t. 198.*

- Libanitis.* Spikes roundish: leaves crowded, linear, revolute, very entire, downy: stem downy.
Spain. *Cavan. ic.* 2. p. 17. t. 198.
- pumilum.* Heads terminal, sessile: leaves linear, flat, crowded, disposed 4 ways: stem procumbent, downy.
Spain. *Barr. rar.* t. 1092. 12) t. 1093.
- angustissimum.* Heads terminal, hairy: leaves linear, very entire, nearly naked: stem erect.
Spain. *Barr. rar.* t. 1080.
- caeleste.* Heads terminal, downy: leaves linear, entire, hoary: stem erect.
Mountains of Spain. *Barr. rar.* t. 1081.
- spinosum.* Spinous: upper-lip of the calyx ovate: corols reversed: peduncles in pairs.
Spain. *Cavan. ic.* 1. t. 31. *Moris. fect.* 11. t. 22. f. 17.

1124. WESTRINGIA. *Calyx* 5-cleft half way down, 5-sided: *corol* reversed; the border 4-cleft; the longest segment erect and cloven: *stamina* distant; the 2 lower ones abortive.

- rosmariniformis.* WESTRINGIA.
Cunila fruticosa. *Vol.* v. p. 56. *Donn. Cant.* p. 5.
New Holland. *Smith's Tracts*, p. 277. t. 3.
Shrub with square filky branches: leaves in fours, linear-lanceolate, entire, revolute, clothed with white filky down beneath: flowers axillary, solitary.

1125. SATUREIA. *Corol* with nearly equal segments: *stamina* distant. *Savory.*

- juliana.* Whorls flat-topped: leaves linear-lanceolate.
Italy. *Moris.* 3. *fect.* 11. t. 17. f. 4.
Whorls numerous, reaching half way down the stalk.
- nervosa.* Whorls crowded: calyx villous: leaves ovate, acute, veined and glabrous underneath.
Mount Atlas. *Desfont. atlant.* 2. t. 121. f. 2.
- Thymbra.* Whorls roundish, bristly: leaves ovate-oblong, pointed, veinless, dotted, bristly.
Candia. *Blackw.* t. 318. *Barr. rar.* t. 396.
Whorls only 4 or 5.
- græca.* Peduncles axillary, 3 or 6-flowered: bracts shorter than the calyx: leaves ovate, bristly, veined underneath.
Archiepelago. *Mori.* f. 11. t. 17. f. 2. *Pluk.* t. 84. f. 8.
Lower-leaves ovate, purplish; the rest linear.

- filiformis.* Peduncles axillary, 1 or 3-flowered, naked: leaves ovate-lanceolate, villous.
 Atlas. *Desfont. atl. 2. p. 8. t. 121. f. 1.*
 Plant villous: peduncles few-flowered: bractes 0.
- montana.* Peduncles axillary, cymed, somewhat leaning to one side: segments of the calyx pointed, mucronate: leaves linear-lanceolate, entire, mucronate.
 South of France. *Hort. Rom. t. 64. Scop. Carn. t. 30.*
- rupestris.* Peduncles axillary, cymed, leaning one way: segments of the calyx obtuse, not mucronate: leaves roundish-ovate, tapering to the base, toothed, rather obtuse.
 Carniola. *Scop. Carn. t. 29. Jacq. ic. 3. t. 494.*
- hortensis.* Peduncles axillary, somewhat cymed: leaves lanceolate, very entire: stem cross-armed.
 Italy. *Blackw. t. 419. Hort. Rom. t. 70.*
 Leaves opposite, a little hairy: peduncles 2-flowered.
- capitata.* Flowers spiked: leaves carinate, dotted, ciliate.
 Levant. *Barr. ic. 897.* Plant hoary.
- spinosa.* Branches spinous: leaves bristly.
 Crete. Branches ending in a spine: leaves oblong, bristly, ciliate: peduncles axillary, 1-flowered.
- viminea.* Flowers axillary, 3 together, nearly sessile: bractes linear: leaves oblong, very entire, tapering to the base, glabrous, bristly underneath.
 Jamaica. Leaves opposite, hoary underneath.

1126. THYMBRA. Calyx somewhat cylindrical, 2-lipped, grooved on both sides with a villous line: style half 2-cleft.

- spicata.* Flowers spiked.
 Macedonia. *Pluk. alm. t. 116. f. 5. Barr. rar. t. 1230.*
- verticillata.* Flowers in whorls.
 South of Europe. Leaves opposite, linear-lanceolate, dotted; the floral-ones ciliate.
- ciliata.* Flowers in heads: leaves linear, ciliate.
 Africa. *Desfont. atl. 2. p. 10. t. 122.*
 Bractes ovate, acute, ciliate, longer than the calyx.

1127. HYSSOPUS. Corol with the lower-lip 3-parted; the middle segment mostly crenate: stamina straight, dilated. *Hyssop.*

- officinalis.* Flowers in whorls, racemed, pointing one way: middle division of the corol 2-lobed and very entire: leaves lanceolate.

South of Europe. *Woodv. t. 65. Blackw. t. 296.*

Shrub branched: leaves long, narrow, entire.

Lopanthus. Peduncles axillary, cymed: corol reversed; the middle segment crenate: leaves oblong, heart-shaped, toothed.

Northern China. *Jacq. hort. 2. t. 182.*

nepetoides. Spikes whorled cylindrical: middle segment of the corol crenate: styles shorter than the corol: leaves somewhat hearted, ovate, pointed, acutely toothed.

Virginia. *Jacq. hort. t. 69. Moris. sect. 11. t. 4. f. 11.*

Flowers yellow, in close thick long spikes.

schrappularifolius. Spikes whorled, cylindrical: middle segment of the corol crenate: styles longer than the corol: leaves heart-ovate, pointed, obtusely toothed.

Canada. *Herm. parad. t. 106. Willd. 3. p. 48.*

Bractes glabrous: style twice as long as the corol.

1128. *NEPETA.* Corol with the middle segment of the lower-lip crenate; the orifice with a reflected margin: *stamina* approximate. *Nep. Catmint.*

**Cataria.* Flowers spiked: whorls slightly pedicelled: leaves petioled, hearted, tooth-ferrate.

Hedges. *Eng. bot. t. 137. Blackw. t. 455.*

angustifolia Corymbs pedicelled, spiked: leaves lanceolate, wrinkled, downy, obtusely ferrate.

Arragon. *Branches simple: leaves acute at the base.*

crispa. Spike whorled, interrupted: leaves hearted, toothed, wrinkled, undulate, petioled, hoary.

— *Flowers blue, in a terminal raceme.*

heliotropifolia. Leaves ovate-oblong, very entire, petioled, somewhat hoary: racemelets peduncled, about 5-flowered.

Levant *Lamarck. encycl. 1. p. 704. Willd. 3. p. 50.*

Corymb 5-flowered, small; central flower sessile.

pannonica. Cymes peduncled, many-flowered: leaves lance-oblong, hearted, naked: lateral lobes of the corol reflected.

Austria. *Jacq. Austr. t. 129. Moris. f. 11. t. 6. f. 6.*

Cymes axillary, opposite, many-flowered.

cærulea. Cymes peduncled, many-flowered, hairy: leaves oblong, hearted, villous, nearly sessile: lateral lobes of the corol reflected.

— *Aiton Kew. 2. p. 285. Willd. 3. p. 51.*

violacea. Cymes peduncled, many-flowered, hairy: leaves hearted, slightly petioled, nearly naked: lateral lobes of the corol spreading.

South of Europe. *Bocc. mus. 2. p. 64. t. 36.*

- incana.* Cymes peduncled, many-flowered. leaves petioled, oblong, somewhat hearted, crenate, downy.
Levant. *Aiton Kew. 2. p. 285.*
- japonica.* Panicles of flowers axillary: leaves petioled, ovate, serrate, downy.
Japan. *Houtt. Syst. 7. p. 429. t. 56 f. 2.*
Stem roundish below, decumbent, downy.
- ucranica.* Flowers panicked: leaves lanceolate, serrate, sessile, naked.
Ukraine. *Flowers blueish.*
- Nepetella.* Cymes peduncled: leaves hearted, oblong-lanceolate, deeply serrate, downy.
South of Europe. *Leaves narrow: flowers red.*
- nuda.* Racemes of flowers whorled, naked: leaves heart-oblong, sessile, serrate.
Spain: Switzerland. *Jacq. Austr. 1. p. 17. t. 24.*
Stem glabrous: leaves obtuse, veined, rough: racemes cross-armed: bractes linear: flowers blue and white.
- melissæfolia* Leaves hearted, serrate, petioled: whorls peduncled, corymbed: calyxes long, striate.
Crete. *Lamarck. encyclop. 1. p. 703.*
Root composed of brown fusiform bulbs an inch long: stem pubescent: calyx tubular: corol blueish.
- hirsuta.* Flowers sessile, in whorled spikes; the whorls involved in down.
Sicily. *Bocc. sic. 48. t. 25. f. 2. Horminium.*
- italica.* Flowers sessile, in whorled spikes: bractes lanceolate, as long as the calyx: leaves petioled.
Italy. *Jacq. hort. 2. p. 51. t. 112.*
Whorls remote, sessile, supported by lanceolate bractes.
- multibracteata.* Flowers sessile, in whorled spikes: bractes lanceolate, pubescent, longer than the calyx: leaves petioled, villous underneath.
Mount Atlas. *Desfont. atl. 2. p. 11. t. 123.*
Stem simple: flowers violet, almost sessile.
- reticulata.* Spikes terminal: bractes oblong, acute, reticulate with veins, coloured: leaves heart-lanceolate, pubescent: lateral lobes of the corol reflected.
Mount Atlas. *Desfont. atl. 2. p. 12. t. 124.*
Bractes numerous, large, ovate: flowers pale.
- tuberosa.* Spikes terminal: bractes oblong, pointed, nerved with lines, coloured: leaves hearted, pubescent: lateral lobes of the corol reflected.
Spain: Portugal. *Barr. rar. t. 602.*
Stems simple: leaves wrinkled, coarsely serrate: spike long: bractes numerous, erect, ovate, coloured with red.

- lanata*. Spikes terminal: bractes ovate, wrinkled with nerves, somewhat scarious: leaves oblong, hearted, villous: lateral lobes of the corol spreading.
South of Europe. *Jacq. obs.* 3. p. 21. t. 75.
Lower-leaves petioled; upper-ones sessile.
- Scorditis*. Spikes sessile, terminal: bractes somewhat hearted, villous: leaves hearted, obtuse.
Crete. *Alp. exot.* t. 283. *Scorditis*.
Root-leaves downy, spreading on the ground.
- virginica*. Heads terminal; stamina longer than the flower; leaves lanceolate.
Virginia. *Morif. fess.* 11. t. 8. f. ult.
Lower-lip of the corol serrate, but not concave.
- malabarica*. Spike whorled: bractes filiform: leaves lanceolate, very entire below.
Malabar. *Rheed. Mal.* 10. p. 185. t. 93.
Stems downy: *leaves* downy, serrate, entire towards the base: *whorls* numerous; corol pale violet.
- indica*. Upper-lip of the corol entire and very short.
India. Probably the same as *Lavandula carnosia*.
- amboinica*. Leaves hearted, obtuse, crenate: bractes ovate.
Amboina. *Petioles* dilated at top: *flowers* whorled: *bractes* 2, minute, ovate, entire: upper-lip of the corol short, white; lower-lip violet.
- madagascariensis*. Leaves ovate-roundish, crenate, petioled, somewhat villous: raceme terminal, naked.
Madagascar. *Rheed. Mal.* 11. p. 49. t. 25.
Root fibrous, furnished with roundish bulbs: middle segment of the lower-lip of the corol concave, crenate.
- multifida*. Flowers spiked: leaves pinnatifid, very entire.
Siberia. *Gmel. sib.* 3. p. 242. t. 55. *Lavandula*.
Leaves oblong, 3—5-lobed; the lobes alternate, oblong, entire: *flowers* small, white.
- botrysoides*. Flowers spiked: lateral lobes of the corol somewhat spreading; leaves pinnatifid, with linear nearly equal segments.
Siberia. *Cavan ic.* 1. p. 36. t. 49. *N. bipinnata*.
Leaves doubly pinnate, linear, naked, hearted, with the segments obtuse: *flowers* small, white.
1129. ELSHOLTZIA. *Calyx* tubular, 5-toothed: corol 2-lipped; the upper-lip 4-toothed; lower-lip longer than the upper, undivided, slightly crenulate: *stamina* distant.
- cristata*. Spike solitary, 1-sided, erect.

Siberia. Willd. *ust. bot. mag.* 11. p. 5. t. 1.

Stem erect, branched: leaves ovate, petioled, toothed, opposite, glabrous: bractes roundish, mucronate.

paniculata. Spikes 1-sided, reflected, panicked.

East Indies. Rheed. *Mal.* 10. p. 129. t. 65.

1130. LAVANDULA. Calyx ovate, slightly toothed, supported by a bracte: corol reversed: stamina within the tube. *Lavender.*

Spica. Leaves sessile, lance-linear, revolute at the edge: spike interrupted, naked.

South of Europe. Woodv. t. 55. Blackw. t. 294, 295.

Shrub branched: leaves linear or lanceolate, whitish green: flowers blue, in terminal spikes.

Stachas. Leaves sessile, linear, downy, revolute at the edge. spike contracted, comose; bractes about 3-lobed.

South of Europe. Moris. *sect.* 11. t. 1. f. 1. 2) 2.

Bractes broad ovate, 3-lobed, a little downy.

viridis. Leaves sessile, linear, wrinkled, villous: revolute at the edge: spike comose: bractes undivided.

Madeira. Aiton *Kew.* 2. p. 288. L'Herit. *fert.* t. 21.

dentata. Leaves sessile, linear, with pectinate divisions: spike contracted, comose.

Spain. Curt. *mag.* t. 400. Moris. f. 11. t. 1. f. 6.

Leaves opposite, linear-oblong, obtuse, sessile.

pinnata. Leaves petioled, pinnate, with wedge-form leaflets: spike imbricate.

Madeira. Curt. *mag.* t. 401. Jacq. *ic. rar.* t. 106.

Leaves glaucous grey, with obtuse leaflets.

multifida. Leaves petioled, pinnate, hoary; leaflets decussively pinnatifid: spike simple, square, spiral: bractes ovate, nerved, villous.

Spain. Moris. f. 11. t. 1. f. 4. Rivin. t. 54. f. 3.

Lower-leaves petioled, upper-ones sessile, all hairy.

abrotanoides. Leaves petioled, pinnate, nearly glabrous; leaflets decussively pinnate: spike branched, interrupted, square: bractes ovate, pointed, nerved, glabrous.

Canaries. Comm. *rar.* t. 27. Pluk. *amaltb.* t. 303. f. 5.

Leaves green: spike not spiral: bractes glabrous.

carnea. Leaves petioled, ovate, hearted, ferrate, fleshy: spike square: calyxes recurved.

Indies. Rheed. *Mal.* 10. t. 90. Moris. f. 11. t. 6. f. 7.

Leaves finely pubescent, deciduous in flowering.

1131. SIDERITIS. *Calyx* 5-cleft: *corol* ringent; the upper-lip cloven, lower 3-parted: *stamina* within the tube of the corol: the shorter *stigma* involving the other. Iron-wort.

A. *Without bractes.*

- canariensis.* Shrubby, villous: leaves heart-oblong, acute, petioled: spikes whorled, nodding before flowering: branches divaricate.
Canaries. *Jacq. hort.* 3. t. 30 *Pluk. alm.* 1. 332. f. 4.
Leaves crenate, green: *spikes* peduncled, long.
- candicans.* Shrubby, downy: leaves ovate-lanceolate, hearted, tapering to the top, snowy underneath: whorls remote, about 8-flowered.
Madeira. *Comm. hort.* 2. p. 197. t. 99. *Stachys.*
- cretica.* Shrubby, downy: leaves heart-oblong, obtuse, petioled: branches divaricate: spikes whorled.
Crete. *Shrub* with snowy downy branches: *leaves* snowy downy underneath: *spike* pendulous, white.
- montana.* Herbaceous: calyxes spinous, larger than the corol: upper lip 3-cleft.
Italy; Austria. *Jacq. Austr.* 5. p. 16. t. 434.
Whorls 6-flowered: *corol* yellow with a reddish edge.
- elegans.* Herbaceous, villous: stem diffuse: segments of the calyx nearly equal, spinulous.
—— *Murr. Comm. Goett.* 1778. p. 92. t. 4.
Calyxes villous, a little pungent; the upper division longer: *corol* white with black lips.
- tomana.* Herbaceous, decumbent: calyxes spinous: upper-lip of the corol ovate.
South of Europe. *Cavan. ic.* 2. t. 187. *Morif.* 11. t. 12. f. 5.
Upper lobe of the *calyx* twice as broad as the rest.

B. *With very entire bractes.*

- syriaca.* Undershrub woolly-downy: leaves lanceolate, mostly very entire: flowers in whorled spikes: bractes heart-shaped, acute, downy.
Levant. *Hort. Rom.* 3. t. 40. 2) *Barr. ic.* 1187.
Plant clothed with thick white down: *root-leaves* very minutely crenate: *flowers* yellowish-white.
- taurica.* Undershrub, downy: leaves lanceolate, crenate: flowers in whorled spikes; whorls approximate: bractes heart-shaped, pointed, reticulate with nerves.
Chersonesus Taurica. *Willd.* 3. p. 66. n. 8.
Plant white downy: *corol* yellow.

distans. Undershrub, hoary: leaves lanceolate, very entire, acute: flowers in whorled spikes; whorls distant: bractes heart-shaped, pointed, mucronate, reticulate with nerves.

Willd. 3. p. 66. Whorls very remote: tube of the corol longer than the calyx; middle segment of the lower-lip obtuse, not notched.

perfoliata. Herbaceous, bristly-hairy: upper-leaves lanceolate, clasping the stem, denticulate: bractes heart-shaped, pointed, reticulate with nerves, hairy at the edge.

Levant. Lower-leaves of the stem petioled.

ciliata. Herbaceous: leaves petioled, ovate, serrate: bractes nerved, ciliate.

Japan. Thunb. Jap. 245. Willd. 3. p. 67.

Plant villous: leaves dotted above, pale beneath.

C. With toothed bractes.

incana. Undershrub, downy: leaves lance-linear, very entire: bractes toothed: lateral lobes of the lower-lip of the corol acute.

Spain. Cavan. ic. 2. p. 69. t. 186. Barr. ic. 236.

Bractes somewhat spinous: whorls 6-flowered.

virgata. Undershrub, downy: leaves linear, very entire: bractes toothed: lateral lobes of the lower-lip of the corol obtuse.

Africa. Desfont. atl. 2. p. 15. t. 125.

glauca. Herbaceous, perennial, hoary pubescent: leaves linear-spate, very entire: bractes toothed: lateral lobes of the lower-lip of the corol acute.

Valentia. Cavan. ic. 2. p. 68. t. 185.

Plant not downy: stem herbaceous.

hyssoifolia. Leaves lanceolate, glabrous, very entire: bractes heart-shaped, tooth-spinous: calyxes equal.

2. Stems prostrate: leaves serrate at top.

Switzerland, Italy. Barr. ic. 171.

Leaves narrow: flowers yellow, spiked.

Scordioides. Leaves lanceolate, slightly toothed, glabrous above: bractes ovate, tooth-spinous: calyxes equal.

2. Hairy, procumbent. Barr. ic. 1160.

Spain, Switzerland. Barr. ic. 343.

Stems ascending, simple: corols yellow.

spinosa. Hairy: leaves lanceolate, tooth-spinous: bractes heart-shaped, tooth-spinous.

Spain. Cavan. ic. 3. t. 209. Calyx spinous.

- hirsuta*. Leaves lanceolate, obtuse, toothed, hairy: bractes tooth-spinous: stems hairy, decumbent.
Spain, Italy. *Hort. Rom.* 3. t. 58.
Leaves with plaited wrinkles and 3 or 4 serratures: whorls very remote, sessile, 6-flowered: corols yellow.
- ovata*. Herbaceous, pubescent: leaves petioled, elliptic, obtuse, crenate: spike square: bractes ovate, tooth-spinous.
Peru. *Cavan. ic.* 1. p. 36. t. 48.
- lanata*. Leaves heart-shaped, obtuse, villous: calyxes unarmed, woolly: spike long: stem erect.
Egypt. *Plant* woolly: bractes obscurely serrate.

1132. BYSTROPOGON. *Calyx* divided into 5 subulate segments: *corol* with the upper-lip cloven; lower 3-cleft: *stamina* distant.

- pectinatum*. Panicles compact: flowers leaning one way: leaves ovate.
Jamaica. *Sloane Jam.* 1. t. 108. f. 1. Nepeta.
Leaves hearted, veined, naked, ferrate: bractes setaceous.
- sidaefolium*. Panicles very lax: peduncles whorled, filiform: leaves heart-shaped.
Peru. *L'Herit. fert. Angl.* 19. n. 2.
- suaveolens*. Peduncles axillary, solitary: calyxes truncate, awned: leaves heart-shaped.
South America. *Brown Jam.* t. 18. f. 3. *Sloan,* t. 202. f. 2.
Leaves opposite, crenate, veined, villous.
- plumosum*. Panicles forked: calyxes feathered: leaves ovate, slightly ferrate, downy underneath.
Canaries. *Calyxes* with very villous spreading teeth.
- origanifolium*. Panicles forked: calyxes feathered: leaves ovate, very entire, very white underneath.
Nigaria. *Leaves* snowy underneath, entire.
- canariense*. Peduncles forked: flowers in heads: leaves ovate, crenate, more villous underneath.
Canaries. *Pluk. alm.* t. 307. f. 2. *Comm. hort.* 2. t. 65.
Leaves on long peduncles, hairy, cinereous beneath.
- punctatum*. Peduncles forked: flowers in heads: leaves ovate, toothed, glabrous, punctulate.
Madeira. Segments of the *calyx* not subulate.

1133. MENTHA. *Calyx* 5-cleft: *corol* nearly equal, 4-cleft; the broadest segment notched: *stamina* erect, distant. *Mint.*

- Auricularia* Spikes oblong: leaves oblong, serrate, hairy, sessile: stamina longer than the corol.
East Indies. *Rumph. amb.* 6. p. 41. t. 16.
- * *sylvestris*. Spikes villous, scarcely interrupted: leaves tooth-serrate, chiefly downy underneath: bractes subulate.
Wastes. *Eng. bot.* t. 686. *Sole Mentb.* r. 1. 2. 4.
- gratissima*. Spikes oblong: leaves sessile, oval, sharply serrate, pointed, hoary underneath: stamina as long as the corol.
Germany; Switzerland. *Willd. sp.-pl.* 3. p. 75.
- niliaca*. Spikes oblong: leaves ovate-lanceolate, nearly sessile, hoary underneath, equally and sharply serrate: stamina longer than the corol.
Egypt. *Jacq. hort.* 3. t. 87. Whorls crowded.
- glabrata*. Flowers in racemed whorls: leaves petioled, ovate-lanceolate, serrate, glabrous.
Egypt. *Vahl. symb.* 3. p. 75. *Willd.* 3. p. 76.
Plant glabrous: stamens shorter than the corol.
- * *viridis*. Spikes interrupted: leaves sessile, lanceolate, acute, naked: bractes setaceous, a little hairy: teeth of the calyx somewhat hairy.
Marshes. *Woodv.* t. 170. *Sole Mentb.* 11. t. 5.
- * *rotundifolia*. Spikes interrupted, somewhat hairy: leaves elliptic, obtuse, wrinkled, crenate, villous underneath: bractes lanceolate.
Wastes. *Eng. bot.* t. 446. *Sole Mentb.* 7. t. 3.
- * *piperita*. Spikes obtuse, interrupted below: leaves petioled, somewhat ovate, nearly glabrous: calyx quite glabrous at the base.
Wet fields. *Eng. bot.* t. 687. *Woodv.* t. 169. *Sole.* t. 7. 8. 24.
- * *odorata*. Spikes in very obtuse heads: leaves petioled, hearted, naked both sides: calyx and pedicels every where quite glabrous.
Wet places. *Engl. bot.* t. 1025. *Sole Mentb.* t. 9.
- * *hirsuta*. Flowers in heads or whorled: leaves petioled, ovate: calyx every where hairy: pedicels brittle backwards.
Wet places. *Eng. bot.* t. 447. 448. *Sole.* t. 6. 10. 11. 22. 45.
- * *acutifolia*. Flowers in whorls: leaves ovate-lanceolate, acute at both ends: calyx every where hairy: pedicels with spreading hairs.
Banks of rivers. *Smith Fl. Brit.* 2. p. 619.
- * *rubra*. Flowers in whorls: leaves ovate: stem erect, flexuous: pedicels and calyxes quite glabrous; teeth of the latter hairy.
Ditches. *Sole Mentb.* t. 24. *Moris. f.* 11. t. 7. f. 2.

- *gentilis*. Flowers in whorls: leaves ovate: stem very much branched, spreading: calyxes and base of the pedicels glabrous.
Ditches. *Sole. t. 18, 19, 20. Moris. sect. 11. t. 7. f. 5.*
- *gracilis*. Flowers in whorls: leaves lanceolate, nearly sessile: stem very much branched, erect: calyxes and base of the pedicels quite glabrous.
Wet places. *Eng. bot. t. 449. Sole. t. 15. 16. 17.*
- *arvensis*. Flowers in whorls: leaves ovate: stem very much branched: calyxes campanulate, every where covered with horizontal hairs.
Wet fields. *Sole Menib. t. 12. 13. 14. Moris. sect. 11. t. 7. f. 5.*
- austriaca*. Flowers in whorls: leaves somewhat ovate, villous: stem branched: calyxes hairy: all the segments of the corol obtuse.
Austria. *Jacq. Austr. 5. t. 430. Allien. Ped. t. 75. f. 2.*
Probably only a variety of the last.
- canadensis*. Flowers in whorls: leaves lanceolate, serrate, petioled, hairy: stamina as long as the corol.
Canada. *Stem not branched: calyxes hairy.*
- *Pulegium*. Flowers in whorls: leaves ovate: stem prostrate: pedicels and calyxes every where downy; teeth of the latter ciliate. Penny-royal.
Wet heaths. *Eng. bot. t. 1026. Woodw. t. 174. Sole. t. 23.*
- cervina*. Flowers in whorls: bractes palmate: leaves linear: stamina longer than the corol.
Montpellier. *Blackw. t. 304. Moris. f. 11. t. 7. f. 7.*
- perilloides*. Racemes lateral, pointing one way.
East Indies. *Rheed. Mal. 10. p. 153. t. 77.*

1134. PERILLA. *Calyx* with the upper division very short: *stamina* distant: *styles* 2, united.

ocimoides.

PERILLA.

India. *Arduin spec. 2. p. 28. t. 13. Melissa.*

Stem simple, square, hairy: *leaves* ovate, serrate: *racemes* terminal and lateral: *bractes* longer than the flower.

1135. HYPTIS. *Calyx* 5-toothed: *corol* ringent; the upper-lip cloven, lower-lip 3-parted, with the middle division pouch-form: *stamina* declined.

verticillata

Flowers in whorls: leaves lanceolate, toothed.

H ipaniola. *Ja q. ic rar. 1. t. 113.*

Peauuncles 1-flowered, axillary: *whorls* few-flowered.

- capitata.* Heads peduncled, involucred; involucre lanceolate, as long as the flowers: leaves ovate, toothed.
Jamaica. *Sloane Jann.* 1. t. 109. f. 2. *Jacq. ic.* 1. t. 114.
- radiata.* Heads peduncled, involucred; involucre lanceolate, as long as the flowers: leaves oblong, toothed, tapering to the base.
Carolina. *Dill. elth* 88. t. 75. f. 86. Clinopodium.
- Chamædrys* Heads peduncled, involucred; involucre linear, hairy, shorter than the flowers: leaves ovate, crenate.
Guiana. *Willd.* 3. p. 85. *Vahl. symb.* 3. p. 77. Clinop.
Stem purplish, villous: leaves obtuse, veined.

1136. GLECHOMA. Calyx 5-cleft: antheræ approaching each other in pairs, and each pair forming a cross. Ground-Ivy.

- *hederacea.* Leaves kidney-form, crenate.
Hedges. *Eng. bot.* t. 853. *Woodv.* t. 28. *Curt. Lond.* 2. t. 44.

1137. LAMIUM. Calyx 5-toothed, with setaceous spreading teeth: upper-lip of the corol vaulted, lower 2-lobed; the throat inflated and toothed each side at the margin. Archangel.

- Orvala.* Leaves heart-shaped, unequally and sharply serrate: mouth of the corol inflated: calyx coloured.
Italy; Hungary. *Curt. mag.* t. 172. *Scop. Carn.* t. 27.
- levigatum.* Leaves heart-shaped, wrinkled: stem smooth: calyxes glabrous, as long as the tube of the corol.
Italy. *Hort. Rom.* 3. t. 34. *Pluk. phyt.* 198. f. 1.
Leaves serrate, hardly pubescent: teeth of the calyx without the brown spots at the base: teeth of the corol lanceolate.
- rugosum.* Leaves heart-shaped, obtuse, wrinkled, hairy: stems hairy: whorls many-flowered: throat of the corol with a single setaceous tooth.
Italy. *Bocc. mus.* 2. p. 35. t. 23.
- garganicum* Leaves heart-shaped, pubescent: throat of the corols inflated; the tube straight, with a double tooth each side.
Italy. *Till. pis.* 93. t. 34. f. 2.
Leaves not rough: upper-lip 4-toothed, spreading.
- maculatum.* Leaves heart shaped, pointed: whorls 10-flowered.
Italy, Germany. *Col. ecpr.* 1. p. 190. t. 185.
Leaves with a longitudinal white patch: corols purple: flowers 5 each side; upper-lip with a small acute tooth.

- * *album*. Leaves heart-shaped, pointed, serrate, petioled: whorls 20-flowered.
Wastes. *Eng. Bot. t. 668. Curt. Lond. fasc. 2. t. 45.*
- molle*. Leaves petioled, hardly toothed; the lower-ones heart-shaped, upper-ones ovate.
—— *Aiton Kew. 2. p. 297.* Leaves almost entire.
- * *purpureum*. Leaves heart-shaped, obtuse, equally and obtusely toothed, petioled; the upper-ones crowded.
Wastes. *Eng. Bot. t. 669. Curt. Lond. fasc. 1. t. 42.*
- incisum*. Leaves heart-shaped, rather acute, cut-toothed, petioled: corols narrower than the calyx.
South of France. *Pluk. alm. 204. t. 41. f. 3.*
- bifidum*. Leaves heart-shaped: helmet of the corol cloven, with divaricate segments.
Naples. *Cyrill. rar. fasc. 1. p. 22. t. 7.*
Stems decumbent, glabrous: whorls 6-8 flowered.
- tomentosum*. Leaves roundish-heart-shaped, obtusely toothed, downy both sides, petioled.
Armenia. *Plant clothed with soft white down.*
- * *amplexicaule*. Floral-leaves sessile, clasping the stem, obtuse.
Fields. *Eng. Bot. t. 770. Curt. Lond. fasc. 2. t. 46.*
- multifidum*. Leaves many parted.
Levant. *Comm. rar. 26. t. 26.*

1138. GALEOPSIS. *Calyx* 5-cleft, awned: upper lip of the corol vaulted and crenate, lower-lip with 2 teeth on its upper side. *Hemp Nettle.*

- * *Ladanum*. Stem not swelled below the joints: leaves lanceolate, more or less serrate, hairy: upper-lip of the corol slightly notched.
Corn fields. *Eng. bot. t. 884. Riv. mon. t. 24. f. 1.*
- * *villosa*. Stem not swelled below the joints: leaves ovate-lanceolate, serrate, villous: upper-lip of the corol deeply notched.
Sandy fields. *Riv. mon. t. 14. f. 2.*
2. Joints a little swollen. *G. grandiflora. Willd. 3. p. 91.*
- * *Tetrabit*. Stem swollen below the joints, bristly: corol twice as long as the calyx, with the upper-lip straightish.
Corn fields. *Eng. bot. t. 207. Riv. mon. t. 31.*
- * *versicolor*. Stem swollen below the joints, bristly: corol thrice as long as the calyx, with the upper-lip inflated.
Sandy fields. *Eng. bot. t. 667. Curt. Lond. fasc. 6. t. 38.*

1139. GALEOBDOLON. *Calyx* 5-cleft, unequal, awned: upper-lip of the *corol* very entire and vaulted; lower-lip 3-cleft, with all the divisions acute.

* *luteum*. GALEOBDOLON. *Yellow Dead-nettle*.
Moist shades. *Eng. bot. t. 787. Curt. Lond. fasc. 4. t. 20.*

1140. BETONICA. *Calyx* 5-cleft, awned: upper-lip of the *corol* ascending, flattish; lower-lip 3-cleft; tube cylindrical. *Betony*.

* *officinalis*. Spike interrupted: upper-lip of the *corol* nearly entire; middle segment of the lower-lip notched: calyx nearly glabrous.

Woods. *Eng. bot. t. 1142. Curt. Lond. f. 3. t. 33. Woodw. 241.*

stricta. Spike oblong: upper-lip of the *corol* entire; middle segment of the lower-lip crenate-undulate: calyx hairy.
—— *Aiton Kew. 2. p. 299. Willd. 3. p. 94.*

incana. Spike interrupted: upper-lip of the *corol* cloven; middle segment of the lower-lip crenate; tube downy, incurved.

—— *Aiton Kew. 2. p. 299. Willd. 3. p. 94.*

orientalis. Spike entire: *corol* with the middle segment of the lower-lip very entire.

Levant. *Leaves* narrow and very long.

Alopecuroides. Spike leafy at the base: upper-lip of the *corol* cloven.

Austria. *Jacq. Austr. 1. t. 78. Scop. Carn. 2. t. 28.*

Stem-leaves in 2 oppositions: *bracts* very entire.

hirsuta. Spike leafy at the base: upper-lip of the *corol* very entire.

Pyrenees. *Barr. ic. 340. Zanoni. t. 40. p. 46.*

Spike ovate, not interrupted: *corols* purplish.

grandiflora. Spike leafy, interrupted: calyx villous at the margin, with subulate teeth: upper-lip of the *corol* inversely heart-shaped.

Siberia. *Willd. sp. pl. 3. p. 96. n. 7.*

Plant pubescent: whorls 8-10-flowered: *corol* 4 times as long as the calyx; middle segment of the lower-lip entire.

heraclea. Calyxes of the spike woolly, with filiform teeth: leaves lanceolate, naked.

Levant. *Stem* and leaves nearly glabrous: *corol* yellow.

1141. STACHYS. *Calyx* 5-cleft, awned: upper-lip of the *corol* vaulted; lower-lip reflected at the sides, the middle segment larger and notched: *stamina* reflected towards the sides after shedding their pollen. *Wound-wort.*

- * *sylvatica*. Whorls 6-flowered: leaves hearted, petioled.
Hedges. *Eng. Bot.* t. 416. *Curt. Lond. fasc.* 3. t. 34.
- circinata*. Whorls spiked, 6-flowered: bractes heart-shaped: leaves hearted, petioled, obtuse, crenate, toothed.
Africa. *L'Herit. stirp.* 1. t. 26. *Jacq. ic.* 1. t. 108.
- coccinea*. Whorls 6-flowered: leaves ovate, hearted, crenate, with dilated petioles.
——— *Jacq. hort. schænb.* 3. p. 18. t. 284.
Lower leaves obtuse and petioled; upper ones ovate, sessile: petioles channelled and dilated: *corol* large, scarlet; upper-lip obtuse, undivided; lower-lip with the middle lobe undivided.
- * *palustris*. Whorls 6-flowered: leaves linear-lanceolate, the upper-ones clasping the stem.
Marshes. *Curt. Lond. fasc.* 3. t. 35. *Blackw.* t. 273.
- alpina*. Whorls many-flowered: serratures of the leaves cartilaginous at the tips: *corols* with a flat lip.
Germany. *Hort. Rom.* 3. t. 41. *Pluk. alm.* t. 317. f. 4.
Lip of the *corol* not reflected at the sides.
- * *germanica*. Whorls many-flowered: leaves crenate, and with the stem woolly.
Hedges. *Eng. Bot.* t. 829. *Fl. Dan.* t. 684.
- intermedia*. Whorls many-flowered: calyxes slightly pungent: leaves oblong, somewhat hearted, crenate: stem a little woolly.
——— *Aiton Kew.* 2. p. 201. *Willd. sp. pl.* 3 p. 99.
- lanata*. Whorls many-flowered: leaves woolly: stems procumbent and rooting at the base.
Siberia. *Jacq. ic. rar.* 1. t. 107.
Whole plant clothed with a thick white wool.
- cretica*. Whorls with 30 flowers: calyxes pungent: stem rough-haired.
Crete. *Walth. hort.* 108. t. 19.
Floral-leaves lanceolate, not reflected.
- heraclea*. Whorls 10-flowered: calyxes unarmed: leaves hearted; the floral-ones ovate, very entire, sessile: stem rough-haired.
Nice. *Allion. Pedem.* t. 84. f. 1. *Column. ecphr.* 1. t. 131.
Flowers red: root-leaves hearted and toothed.

- tenuifolia.* Whorls 6-flowered: leaves lanceolate, simply ferrate, quite glabrous.
 Pennsylvania. *Willd. sp. pl.* 3. p. 100. n. 11.
- glutinosa.* Glabrous, much branched; branchlets becoming spinous: peduncles axillary, solitary, 1-flowered, 2-bracted.
 Crete. *Plant* glutinous: leaves lanceolate.
- spinosa.* Hoary; branchlets cross-armed, ending in a spine: flowers axillary, 3 together.
 Crete. *Morif.* 3. p. 283. *sect.* 11. t. 10. f. 9.
- orientalis.* Leaves downy, ovate-lanceolate; the floral-ones shorter than the whorls.
 The East. *Plant* with a fetid smell.
- palestina.* Flowers somewhat spiked: leaves lanceolate, sessile, downy, wrinkled, very entire: calyxes unarmed.
 Palestine. *Barr. ic.* 279. *Plant* white-downy.
- maritima.* Leaves heart-shaped, obtuse, downy, crenate: bractes oblong, very entire.
 Venice. *Dill. elth.* t. 42. f. 50. *Betonica.*
 Spike of interrupted whorls: whorls 6-flowered.
- ethiopica.* Whorls 2-flowered.
 The Cape. *Jacq. obs.* 4. t. 77. *Pluk. alm.* t. 315. f. 3.
 Leaves deeply ferrate, wrinkled, lucid, slightly villous, petioled: spikes interrupted, with 1 or 2 flowers of a side in each whorl: tube of the corol curved.
- hirta.* Whorls 6-flowered: stems prostrate: upper-lip of the corol cloven, divaricate and reflected.
 Spain, Italy. *Allion. pedem.* n. 113. t. 2. f. 3.
 Stems pipy, fragile: leaves petioled, hearted.
- lavandulifolia.* Whorls 6-flowered, very hairy: leaves lanceolate, very entire, marked with lines.
 Levant. *Vahl. symb.* i. p. 42.
 Upper-leaves united at the base, lower-ones sessile: corol purple: segments of the calyx very long and spreading.
- rugosa.* Whorls 6-flowered: leaves lanceolate, tapering to the base, downy, wrinkled, ferrate: calyx unarmed.
 The Cape. *Jacq. ic. rar.* 3. t. 493.
 Leaves snowy underneath: flowers yellow.
- recta.* Whorls somewhat spiked: leaves heart-elliptic, crenate, rough: stems ascending.
 South of Europe. *Jacq. Austr.* t. 359. *Riv. mon.* t. 70.
 Stems ascending: calyx somewhat spinous: corol yellow.
- arenaria.* Whorls somewhat spiked, hairy, 6-flowered: calyxes spinous: leaves oblong, ferrate, obtuse: upper-lip of the corol cloven.

Tunis. *Desfont. atlant. 2. p. 21. tab. 126.*

Lower-leaves petiole, upper ones sessile; all hairy: corol purple, with a hairy tube as long as the calyx.

annua.

Whorls 6-flowered: leaves ovate-lanceolate, 3-nerved, smooth, petioled: stem erect.

South of Europe. *Jacq. Austr. t. 360. Riv. mon. t. 69.*

Lower-leaves ovate, obtuse, middle-ones oblong, petioled, upper-ones sessile, lanceolate, 3-nerved: corol yellow.

**arvensis.*

Whorls 6-flowered: stem weak: leaves heart-shaped, obtuse, crenate, slightly hairy.

Gravelly fields. *Engl. Bot. t. 1154. Curt. Lond. f. 4. t. 41.*

latifolia.

Whorls many-flowered, somewhat spiked: upper-lip of the corol cloven, with acute segments: leaves broad, heart-shaped, wrinkled, hairy.

—— *Aiton Kew 2. p. 303. Willd. 3. p. 107.*

Artemisia.

Whorls many-flowered: leaves cut: stem simple.

Cochinchina. *Lour. Cochinch. p. 443.*

Root-leaves roundish, crenate; stem leaves pinnatifid, cut, downy underneath: upper-lip of the corol entire.

1142. BROTERA. Calyx 5-awned: middle segment of the lower-lip of the corol hooded, involving the stamina and style and protruding them with a jerk.

persica.

BROTERA.

Persia. *Trans. Linn. soc. vi. p. 151. t. 12.*

Leaves opposite, ovate, unequally serrate, roughish: corol minute; upper-lip 2-parted; lower-lip 3-parted.

1143. BALLOTA. Calyx salver-shaped, 10-friate, 5-toothed: corol with the upper-lip concave and crenate. *Black Horehound.*

**nigra.*

Leaves ovate, undivided, serrate: calyxes dilated upwards, somewhat truncate with a point; the teeth spreading.

2. Flowers white. *B. alba. Sp. pl. ed. 2. 814.*

Walters. *Eng. Bot. t. 46. Hort. Rom. t. 35, 36.*

lanata.

Leaves palmate, toothed: stem woolly.

Siberia. *Gmel. sib. 3. p. 241. n. 72. t. 54.*

Stem clothed with white wool: corol yellow.

disticha.

Whorls half surrounding the stem, 2-parted, half-spiked. India. *Leaves* petioled, serrate, downy.

1144. MARRUBIUM. Calyx salver-shaped, rigid, 10-striate: upper-lip of the corol cloven, linear, straight. *White Horehound.*

A. Calyxes 5-toothed.

Alyssum. Leaves wedge-form, 5-toothed, plaited: whorls without involucre.

Spain. *Moris* 3. p. 377. f. 1114. 10. f. 12.

Flowers 3 each side; calyxes acute, with spread teeth.

astracanicum. Leaves elliptic, obtuse, crenate, downy, wrinkled: calyxes and lanceolate bractes villous.

The East. *Jacq* ic. rar. 1. t. 109.

peregrinum. Leaves oblong, hoary, wrinkled and veined, toothed; the teeth larger towards the tip: teeth of the calyxes subulate.

Austria. *Jacq. Austr.* t. 160. *Moris* f. 11. t. 9. f. 8.

creticum. Leaves lanceolate, hoary, wrinkled and veined, toothed at the tip: teeth of the calyxes setaceous: stem branched, divaricate.

The East. Teeth of the calyxes downy.

candidissimum. Leaves ovate, hoary, obtusely toothed, wrinkled and veined: teeth of the calyx subulate: stem slightly branched at the base.

The East. *Dill. elth.* t. 274. f. 214. *Barr.* ic. 686.

supinum. Leaves roundish, somewhat hearted, crenate, wrinkled and veined: calyx with setaceous straight villous teeth.

Spain. *Bocc. mus.* 2. t. 96. *Barr.* ic. 685, 686.

catarticofohum. Leaves ovate, greenish, deeply crenate: teeth of the calyx subulate, glabrous, spreading.

The East. *Lamarck. encycl.* 3 p. 687.

Leaves not wrinkled: bractes subulate, glabrous at the tip: whorls with many white flowers.

B. Calyxes 10-toothed.

vulgate. Leaves roundish-ovate, toothed, wrinkled and veined: calyx with setaceous hooked teeth.

Waites. *Eng. Bor.* t. 410. *Woodw.* t. 97. *Blackw.* t. 479.

africanum. Leaves hearted, roundish, deeply crenate.

The Cape. *Pluk. alm.* t. 306 f. 2. *Comm. hort.* 2. t. 90.

Upper-lip of the corol emarginate, hairy.

crispum. Leaves hearted, roundish. crenate or slightly toothed: calyxes 10-striate, unarmed

Spain: Italy. *Bocc. mus.* 2. t. 129. and title page.

Stem erect, hairy: leaves a little downy, hairy underneath: corol purplish, not hairy; upper-lip roundish, entire.

hirsutum. Leaves hearted, ovate, crenate: calyx with spreading lanceolate teeth: bractes subulate.

— *Wild. sp. pl. 3, p. 113. n. 11.*

hispanicum. Leaves hearted, ovate, crenate: borders of the calyxes spreading, with ovate mucronate teeth: bractes oblong.

Spain. *Barr. ic. 767. Bocc. mus. 2. t. 122.*

Leaves flat: upper-lip of the corol 3 or 4-cleft.

Pseudo-Dictamnus. Borders of the calyxes flat, villous: leaves hearted, concave: stem shrubby.

Crete. *Sabb. Hort. Rom. 3. t. 47.*

Plant entirely clothed with thick compact down.

acetabulosum. Borders of the calyxes membranaceous and longer than the tube; the larger angles rounded.

Crete. *Barr. ic. 129.*

Leaves hearted, deeply serrate, villous: calyx with 20 angles on the border, the lesser ones acute.

1145. LEONURUS. Calyx 5-sided, 5-toothed: upper-lip of the corol concave, villous, entire; lower-lip 3-parted, with the middle segment undivided: antheræ sprinkled with shining dots.

Motherwort.

crispus. Leaves 3-lobed and 5-lobed, cut-toothed, undulate: calyx pungent, less than the corol.

Siberia. *Hort. Rom. 3. t. 43. Cardiaca.*

**Cardiata*. Upper-leaves lanceolate, 3-lobed and entire: calyx pungent, less than the corol; middle segment of the lower-lip acute.

Hedges. *Eng. Bot. t. 286. Blackw. t. 171.*

Marrubias-trum. Leaves oblong, toothed: calyx slightly pungent, hardly less than the corol: middle segment of the lower-lip roundish.

Germany; Java. *Jacq. Austr. 5. p. 3. t. 405.*

spinus. Leaves mostly 5-lobed; the lobes obtuse and toothed at the tip: calyxes sessile, spinous.

Siberia. *Willd. sp. pl. 3 p. 116. n. 5.*

Corol white, a little longer than the calyx.

tataricus. Leaves 3-parted; the segments slightly cut: calyxes unarmed: upper-lip of the corol flat, erect, reflected.

Siberia. *Miller fig. 80. Houtt. Syst. 7. t. 57. f. 1.*

Middle segment of the lower-lip obcordate.

sibiricus. Leaves 3-parted; the segments slightly cut: calyxes unarmed: upper-lip of the corol concave, straight.

Siberia; China. *Amm. ruth. 48. t. 8.*

1146. PHLOMIS. *Calyx* angular: upper-lip of the *corol* incumbent, compressed, villous.

- fruticosa.* Leaves roundish, downy, crenate: involucres lanceolate: stem shrubby.
Sicily; Spain. *Hort. Rom.* 3. t. 15. *Dill. elth.* t. 237. f. 306.
- purpurea.* Bractes lanceolate, acute, pungent: calyxes 5-sided, pointed: leaves with thicker wool underneath.
Spain. *Smith spic. bot.* 1. p. 6. t. 7. *Bar. rar.* t. 405.
- italica.* Bractes lanceolate, obtuse, unarmed: calyxes truncate, unarmed: leaves woolly both sides.
Portugal. *Miller fig.* t. 202. *Pluk. alm.* t. 57. f. 6.
- Nissolii.* Leaves downy both sides; the radical ones heart-arrow-shaped: whorls without bractes: calyx with oblong acute teeth.
Levant. *Miller fig.* t. 204.
Floral leaves ovate: involucres none.
- armenica.* All the leaves petioled, lanceolate, downy underneath: calyx with lance-subulate teeth: bractes much shorter than the calyx, subulate, reflected.
Armenia. *Tourn. Cor.* 10. *Willd.* 3. p. 119.
Stem downy: whorls 6-flowered: calyx downy.
- lychnitis.* Leaves lanceolate, downy; the floral-ones sessile, ovate: bractes setaceous, woolly, as long as the calyx: calyx obtusely toothed.
South of Europe. *Mill. fig.* t. 203. *Lob. ic.* 558.
Involucres linear, clothed with long hairs.
- laciniata.* Leaves alternately pinnate; leaflets jagged: calyxes woolly.
The East. *Tourn. Cor.* 10.
- samia.* Stem hairy: leaves heart-shaped, crenate, downy underneath: bractes 3-parted, subulate, mucronate, equaling the calyx.
Africa. Leaves very large, white-downy underneath: bractes pungent, pubescent: corol violet.
- crinita.* Leaves hearted, very entire, downy; the floral-ones oblong and sessile: calyx with subulate erect teeth: involucres setaceous, villous, longer than the calyx.
Spain. *Cavan. ic.* 3. p. 25. t. 247.
Whorls 6-flowered: corol downy outwardly,
- biloba.* Leaves ovate, downy-hoary; the floral-ones sessile: calyx with lanceolate erect teeth: bractes linear-subulate, villous, as long as the calyx.
Algeira. *Desfont. Atl.* 2. p. 25. t. 127.

- pungens*. Leaves petioled, oblong-lanceolate, serrate at top, rough above, downy underneath: calyx with subulate spreading teeth: bractes subulate, mucronate, as long as the calyx.
 Persia. *Willd. sp. pl.* 3. p. 121. n. 11.
 Petioles flat, united at the base: stem pubescent.
- Herba venti*. Leaves oblong-ovate, serrate, hairy underneath: calyx with lance-subulate erect teeth: bractes subulate, hairy: stem hairy.
 Spain; Italy. *Hort. Rom.* 3. t. 17. *Lob. ic.* 532.
- alpina*. Root-leaves heart-shaped, pubescent; floral-ones lanceolate: bractes linear-subulate, villous: stem pubescent.
 Alps. *Pall. acf. petrop.* 1779. 2. p. 265. t. 13.
- tuberosa*. Root-leaves heart-shaped, rough; floral-ones oblong-lanceolate: bractes subulate, bristly: stem glabrous.
 Siberia. *Buxb. cent.* 1. t. 6. *Aët. goett.* 211. t. 12.
 Root tuberous: upper-lip of the corol toothed.
- zeylanica*. Leaves lanceolate, slightly serrate: flowers in terminal heads: calyxes 8-toothed.
 Ceylon. *Jacq. ic. rar.* 1. t. 111. *Rumph. amb.* 6. t. 16. f. 1.
 Calyx obliquely truncate downwards, the upper-tooth longer: corol white; the upper-lip vaulted and closed; lower-lip 3-cleft.
- martinicensis*. Leaves oblong, toothed, pubescent underneath: whorls globular, many-flowered: calyx incurved, 8-toothed; the upper-tooth very long.
 Martiniço. *Jacq. ic. rar.* 1. t. 110. *Amer.* t. 177. f. 75.
- urticifolia*. Leaves ovate, serrate, a little hoary: bractes subulate: calyx obliquely truncate, membranaceous, 9-toothed.
 Arabia; East Indies. *Vabl. symb.* 3. p. 76.
 Leaves alike both sides, flat, with deep serratures.
- decemdentata*. Leaves oblong, narrowed to the base, serrate: whorls without bractes: calyxes 10-toothed.
 Society Islands. *Forst. prodr.* n. 526.
 Calyx 10-toothed; the teeth alternately less.
- biflora*. Leaves ovate, serrate: calyxes solitary, opposite, 10 toothed.
 East Indies. *Burm. zeyl.* 140. t. 63. f. 1.
- chinensis*. Leaves ovate, serrate, silky-downy: calyxes whorled, 10-toothed.
 China. *Retz. obs.* 2. p. 19.
 Calyx with 10 awned teeth: flower white.
- indica*. Involucres linear: calyxes 1-lipped, oblique: leaves ovate, hairy.

India. *Involucres* erect, linear, carinate, villous: *calyx* tubular, oblong, produced at the exterior margin of the mouth into a 3-toothed lip; at the back, where the margin is short, are 2 very minute teeth.

moluccoides. Leaves ovate: *involucres* setaceous: lower-lip of the calyx rounded and membranaceous.

Arabia Felix. *Vahl. symb.* 1, p. 42, t. 14.

Involucres 4 or 7-parted, villous: *calyx* tubular, 2-lipped; the upper-lip short, oblong, acute, lower roundish, 3-lobed.

glabrata. Leaves ovate, serrate: lower-lip of the calyx produced and 3-toothed: branches with reverse hairs.

Arabia Felix. *Involucres* minute, 4-parted, setaceous, glabrous, 4 times as short as the calyx: *calyx* 7-toothed above.

alba. Leaves ovate, serrate, villous: calyxes 5-toothed, oblique.

Arabia Felix. *Involucres* as long as the calyx.

nepetifolia. Leaves hearted, acute, serrate, slightly downy: calyxes 6 or 8-toothed: the uppermost and lowermost teeth larger: stem herbaceous.

East Indies. *Herm. lugdb* 115, t. 117. Cardiaea.

Leonurus. Leaves lanceolate, serrate: calyxes 10-angled, 10-toothed, unarmed: stem shrubby.

The Cape. *Curt. mag.* t. 478. *Moris. sect.* 11, t. 10, f. 17.

Involucre many-leaved, subulate, reflected: corol orange, villous; upper-lip very long, downy, entire; lower-lip short, naked, membranaceous.

Leonitis. Leaves ovate, obtuse, somewhat downy, crenate: calyxes 7-toothed, awned: stem shrubby.

The Cape. *Mill. fig.* t. 162. *Leonurus*.

1147. MOLUCCELLA. *Calyx* campanulate, dilated, broader than the corol, spinous.

spinosa. Calyxes 2-lipped: the upper lip lanceolate, mucronate and longer; lower-lip rounded, 7-toothed; the teeth spinous: leaves petioled, ovate, deeply toothed.

Molucca Islands. *Sabb. Hort. Rom.* 3, t. 46.

Involucre with 4 linear ternate spreading spines.

lewis. Calyxes campanulate, with 5 equal unarmed teeth: leaves petioled, roundish-ovate, toothed.

Syria. *Sabb. Hort. Rom.* 3, t. 45.

Calyx longer than the corol: corol whitish.

tuberosa. Calyxes funnel-form, with 5 equal mucronate teeth: leaves sessile, wedge-oblong, toothed.

Tartary. *Pall. n.* 3, *app. n.* 101, t. T.

Root tuberos: root-leaves petioled, oblong; stem-leaves sessile, oblong, wedge-form: corol longer than the calyx.

persica. Calyx funnel-form, 5-toothed: leaves sessile, wedge-form, with spinous teeth: in bud.

Persia. *Burm. Ind.* 128. t. 38. f. 2.

Shrub with several simple spines at each joint: leaves serrate at top; the serratures spinulous and downy: corol flattish, glabrous.

frutescens. Calyxes funnel-form, with 5 spinous teeth: leaves petiolated, elliptic, obtuse, with 2 or 3 serratures each side.

Italy! *Allion. Pedem. n.* 122. t. 2. f. 2.

Shrub with axillary solitary ternate spines at the whorls:

grandiflora. Calyxes funnel-form, with 5 mucronate divisions: leaves sessile, 3-parted, with the segments cut.

Tartary. *Pall. nov. act. petrop.* 10. p. 380. t. 11.

1148. CLINOPODIUM. *Involucre* of many fetaceous bristles placed under the whorl: calyx 2-lipped: corol with the upper-lip flat, inversely heart-shaped, straight. *Wild Basil.*

vulgare. Heads whorled: bractes fetaceous, bristly: leaves hairy on the upper side, remotely toothed: stem mostly simple.

Hedges. *Flor. Dan.* t. 66. *Riv. mon.* t. 43. f. 1.

egyptiacum Heads terminal: bractes fetaceous, bristly: leaves glabrous on the upper side, nearly entire: stem branched.

Egypt. *Miller fig.* 63. t. 95.

incanum. Heads whorled: bractes lanceolate: leaves slightly toothed, hoary, downy-pubescent underneath.

North America. *Moris. sect.* 11, t. 8. f. 4. *Dill.* t. 74. f. 85.

1149. ORIGANUM. *Calyxes* collected by imbricate bractes into a spiked quadrangular cone: corol with the upper-lip erect, flat; lower-lip 3-parted, with nearly equal divisions. *Marjoram.*

egyptiacum Leaves fleshy, downy: spikes naked.

Egypt. *Moris. sect.* 11. t. 3. f. ult. *Alp. Egypt.* t. 95.

Leaves roundish, concave: spikes roundish.

Dictamnus. Lower-leaves downy: spikes nodding.

Crete. *Cart. mag.* t. 298. *Woodv.* t. 242. *Blackw.* t. 462.

Leaves ovate, obtuse, clothed with soft white hairs.

sipyleum. All the leaves glabrous: spikes nodding.

Phrygia. *Moris. f.* 11. t. 4. f. 2. *Herm. lugdb.* t. 463.

Tournefortii Spikes square: bractes roundish, very large.

Amorgos Island. *Tourn. it.* 1. p. 240. fig.

- iliatum*, Spikes ovate, opposite, sessile, erect: bractes fringed with
setaceous bristles,
Guinea. *Willd. sp. pl.* 3. p. 133. n. 5.
- benghalense* Leaves ovate, toothed: spikes imbricate, woolly: bractes
ovate.
Bengal. *Burm Ind.* 128. t. 38. f. 3.
Leaves entire at the base, glabrous, pointed.
- creticum*, Spikes clustered, long, prismatic, straight: bractes mem-
branaceous, as long again as the calyx.
South of Europe. *Leaves* ovate, obtuse, rugged, entire.
- smyrneum*. Leaves ovate, acute, serrate: spikes crowded, in a flat-
topped kind of umbel.
Smyrna. *Leaves* rather oblong, pointed.
- heracleoti-* Spikes long, peduncled, crowded: bractes as long as the
cum, calyx.
South of Europe; Greece. *Lob. ic.* 492.
- vulgare*. Spikes roundish, panicled, clustered, glabrous: bractes
ovate, longer than the calyx.
Hedges. *Eng. bot. t.* 1143. *Woodv. t.* 164. *Blackw. t.* 289.
- glandulosum* Hairy: clusters of flowers roundish, panicled: calyx and
corol glandular: bractes shorter than the calyx.
Mount Atlas. *Desfont. atl.* 2. p. 27.
Calyx and corol sprinkled with gold glandular dots.
- Onites*, Spikes oblong, clustered, hairy: leaves heart-shaped,
downy.
Syracuse. *Bocc. mus.* 3. p. 45. t. 38.
Leaves nearly sessile, acute, downy both sides.
- syriacum*, Spikes long, ternate, peduncled, villous: leaves ovate,
villous.
Syria. *Lob. ic.* 499. *Marum*.
- Maru*, Spikes hairy: leaves ovate, downy, sessile.
Crète. *Alp. exot.* 289. t. 288.
- Majorana*, Spikes roundish, ternate, compact, peduncled: leaves
petioled, elliptic, obtuse, nearly glabrous: root an-
nual.
Portugal. *Woodv. t.* 165. *Blackw. t.* 319. *Moris.* 11. t. 3. f. 1.
- Majorano-* Spikes roundish, numerous, clustered, peduncled: leaves
ides, petioled, elliptic, obtuse, downy: stem suffruticose.
Willd. sp. pl. 3. p. 137.
Spikes many on a common stalk.

1150. **THYMUS.** *Calyx* 2-lipped; the orifice closed with hairs: *corol* with the upper-lip flat and emarginate. *Thyme*.

- * *Serpyllum*. Flowers in heads: stems decumbent: leaves flat, ovate, obtuse, ciliate at the base.
Heaths. *Curt. Lond. fasc. 2 t. 47. Woodv. t. 110. Bl. t. 418.*
- lanuginosus*. Flowers in heads: stems creeping, hairy: leaves obtuse, villous.
Germany; France *Schkurk. Bot. Handb. 2. t. 164.*
- lævigatus*. Flowers in heads: stems procumbent: leaves linear, obtuse, sessile, narrowed to the base.
Arabia Felix. *Vahl. symb. 2. p. 65.*
Leaves glabrous, dotted both sides, ciliate at the base.
- vulgaris*. Erect: leaves revolute, ovate: flowers in whorled spikes.
Spain; Siberia. *Woodv. t. 109. Blackw. 2. 211.*
- lanceolatus*. Flowers in whorled spikes: stem erect, suffruticose: leaves oblong, flat, pubescent.
Mount Atlas. *Desfont. atl. 2. p. 30. t. 128.*
Calyx pubescent, porous; 2 of the teeth larger.
- numidicus*. Shrubby, erect: leaves linear, spreading, glabrous, nerved underneath: flowers in heads: bractes ovate-lanceolate, ciliate: calyxes hairy.
Barbary. *Desfont. atl. 2. p. 29.*
Leaves not ciliate: bractes broader at the base.
- Zygis*. Flowers in whorled spikes: stem suffruticose, erect: leaves linear, very obtuse, nerveless, revolute at the margin, ciliate at the base.
Spain. *Barr. ic. 777.*
Leaves pubescent above, red underneath: petioles ciliate: corol and stamina white.
- Marschallianus*. Flowers in whorled spikes: stem suffruticose, erect: leaves linear-lanceolate, rather obtuse, flat, about 3-nerved, ciliate at the base.
Tauria. *Willd. 3. p. 141.* Leaves glabrous both sides.
- inodorus*. Stems shrubby, very much branched: leaves needle-like, crowded into tufts, shorter than the flower.
Algeira. *Desfont. atl. 2. p. 30. t. 129.*
Leaves minute, perennial, rigid, nerved underneath.
- * *Acinos*. Whorls 6-flowered; peduncles 1-flowered: stem ascending, branched: leaves oblong, acute, serrate: calyx gibbous.
Dry fields. *Eng. Bot. t. 411, Curt. Lond. fasc. 1. t. 43.*

- * *Calamintha*. Whorls peduncled, many-flowered, forked: leaves slightly ferrate: hairs of the calyx included within the orifice. *Calamint*.
Melissa Calamintha. *Sp. pl. With. Hudf. Willd.*
 Road sides. *Rev. mon. t. 46. f. 2. Blackw. t. 166.*
- * *Nepeta*. Whorls peduncled, many-flowered, forked, longer than the leaves: leaves ferrate: hairs of the calyx projecting beyond the orifice.
 Road sides. *Curt. Lond. fasc. 6. t. 46. Blackw. t. 167.*
- patavinus*. Flowers in whorls; orifice inflated, longer than the calyx: leaves ovate, ferrate: stems suffruticose.
 South of Europe. *Jacq. obs. 4. p. 7. t. 87.*
- alpinus*. Whorls 6-flowered: leaves roundish, rather obtuse, concave, ferrate: corols inflated.
 Alps. *Jacq. Austr. 1. t. 97. Bocc. mus. 2. t. 45.*
- montanus*. Flowers whorled: peduncles 1-flowered: stem erect, branched: leaves ovate, very entire: calyx glabrous.
 Alps. *Willd. sp. pl. 3. p. 143.*
 Three upper-teeth of the calyx oblong, cuspidate, glabrous; 2 lower-ones lance-subulate, longer and ciliate.
- Piperella*. Peduncles many-flowered, lateral: leaves ovate, obtuse, glabrous, nerved, very entire.
 Spain. *Allion. pedem. t. 37. f. 3. Barr. rar. t. 694.*
- Brownei*. Leaves orbicular, crenate: flowers peduncled, axillary.
 Jamaica. *Brown Jam. 259. Th. minimus herbaceus.*
- filiformis*. Flowers axillary, solitary, peduncled: leaves heart-shaped, acute, very entire, petioled: stems filiform, decumbent.
 Balearic Islands. *Aiton Kew. 2. p. 313.*
- cephalotus*. Heads lax, imbricate: bractes broad ovate, coloured, not dotted: leaves linear, very entire.
 Spain; Portugal. *Barr. ic 778. Bocc. mus. 2. t. 43.*
- striatus*. Heads closely imbricate: ovate bractes and linear-lanceolate leaves striate, dotted at the margin.
 Naples. *Vabl. symb. 3. p. 78. Leaves erect.*
- villosus*. Heads imbricate, large: bractes toothed: leaves setaceous, hairy.
 Portugal. Heads large, purplish, oblong or round.
- Mastichina*. Flowers in whorls: calyx woolly, with setaceous villous teeth.
 Spain. *Blackw. t. 134. Marum.*
- Tragoriganum*. Flowers in whorls: stem suffruticose, erect: leaves bristly, pointed.
 Crete. *Alp. exot. t. 78. Leaves elliptic.*

virginicus. Heads terminal: stem erect: leaves lanceolate.

Virginia. *Morif. sect.* 11. t. 7. f. 8. *Herm. parad.* t. 218.

1151. MELISSA. *Calyx* dry, flattish above; the upper-lip somewhat flat-topped: *corol* with the upper-lip slightly vaulted, cloven; lower-lip with the middle lobe heart-shaped. *Balm*, or *Baum*.

officinalis. Whorls reaching half way round: bractes oblong, pedicelled: leaves ovate, acute, serrate.

South of Europe. *Woodv.* t. 147. *Blackw.* t. 27.

Leaves ovate, rough, deeply serrate: flowers whitish.

grandiflora. Peduncles axillary, 3 or 4-flowered: bractes lanceolate, sessile: leaves ovate, acute, sharply serrate.

South of Europe. *Curt. mag.* t. 208. *Ger. emac.* 687.

Leaves wrinkled: flowers very large, red.

pyrenaica. Stem naked: flowers in whorls: leaves oblong, obtuse, toothed.

Alps. *Jacq. hort.* 2. t. 183. *Magn. hort.* t. 133.

Bractes ovate, pointed, entire: corol large, reddish.

cretica. Racemes terminal: peduncles solitary, very short.

Spain. *Pluk. alm.* 75. t. 163. f. 4? *Calamintha*.

Leaves ovate, with a few obtuse teeth: calyx brown.

fruticosa. Branches tapering, wandlike: leaves downy underneath: stem shrubby.

Spain. Leaves small, hoary, ovate, pointed.

1152. DRACOCEPHALUM. *Corol* with an inflated throat; the upper-lip concave; lower-lip 3-cleft, the lateral divisions erect, middle-one hanging down. *Dragon's-head*.

A. Flowers in spikes.

virginianum. Flowers in crowded spikes: leaves linear-lanceolate, serrate.

Virginia. *Curt. mag.* t. 467. *Morif. sect.* 11. t. 4. f. 1.

denticulatum. Flowers in spikes, rather remote: leaves obovate-lanceolate, denticulate upwards.

Carolina. *Curt. mag. tab.* 214.

canariense. Flowers in spikes: leaves ternate; the lateral leaflets a little unequal at the base. *Balm of Gilead*.

Canaries. *Morif. sect.* 11. t. 11. f. ult. *Hort. Rom.* 3. t. 27.

Plant hairy at the joints: leaves soft, wrinkled. 3 or 5 together, ovate, pointed, toothed: corol flesh-colour with white lines.

- pinnatum*. Flowers spiked: bractes and calyxes ciliate: tube of the corol shorter than the calyx: leaves heart-shaped, sinuate.
Siberia. *Gmel. Sib. 3. p. 235. n. 58. t. 52.*
Stems decumbent: bractes lanceolate, often red.
- Origanoideis*. Flowers in spiked heads: bractes wedge-form, toothed, coloured: leaves roundish-heart-shaped, sinuate-toothed, downy underneath.
Siberia. *Willd. sp. pl. 3. p. 151. n. 5.*
Plant small, tufted: leaves hoary, with 2 or 3 deep teeth each side: flowers in a roundish terminal head.
- palmatum*. Flowers somewhat spiked: leaves roundish-wedge-form, sinuate-toothed: upper-lip of the calyx undivided, mucronate.
Siberia. *Willd. sp. pl. 3. p. 151.*
Stem creeping: lower-leaves roundish, upper-ones wedge-form, 5 or 7-toothed, pubescent: upper-lip of the calyx obovate, reticulate, undivided; lower 4 parted.
- peregrinum*. Flowers somewhat spiked: leaves lanceolate, with remote mucronate teeth: bractes linear lanceolate, with a few spinous teeth.
Siberia. Leaves a little hoary: flowers blue-purple.
- fruticulosum*. Flowers somewhat spiked: leaves elliptic, very entire, mucronate: bractes elliptic, with a few spinous teeth.
Siberia. *Willd. sp. pl. 3. p. 152.*
Stem glabrous: leaves with sometimes a tooth or 2 at the base: calyx coloured, awned.
- austriacum*. Flowers spiked: leaves sessile, linear, mucronate: those of the stem 3 or 5-parted at the base; those on the branches simple: bractes 3-parted.
Austria. *Jacq. ic. rar. 1. t. 112.*
- Ruyschiana*. Flowers spiked: leaves and bractes lanceolate, undivided, unarmed.
Siberia; Denmark. *Fl. Dan. t. 121. Morif. sect. 11. t. 5. f. 9.*

B. Flowers in whorls.

- grandiflorum*. Flowers in whorls: leaves oblong, obtuse, toothed, petioled: bractes lanceolate, very entire: upper-lip of the calyx elliptic, obtuse, undivided
Siberia. Leaves deeply and obtusely toothed: corol blue.
- altaense*. Flowers whorled: root-leaves heart-ovate; those on the stem sessile, roundish-wedge-form, acutely toothed: calyx with equal teeth.
Altaic mountains. *Laxm. nov. comm. petrop. 15. t. 29. f. 3.*
Bractes very obtuse, as long as the calyx, sharp-toothed.

sibiricum. Flowers whorled; the whorls peduncled, cloven, pointing one way: leaves lanceolate, hearted, pointed, serrate, glabrous.

Siberia. *Gmel. fib. 3. p. 234. t. 51.*

Plant fetid: bractes linear-lanceolate: corol large.

Moldavica. Flowers whorled: bractes lanceolate, ciliate with teeth: leaves lanceolate, deeply toothed, dotted underneath, the lowest serratures slightly ciliate.

Moldavia; Siberia. *Blackw. t. 551. Ludw. ed. t. 15.*

canescens. Flowers whorled: bractes oblong, ciliate: calyx striate, pubescent: tube of the corol longer than the calyx.

Levant. *Miller fig. t. 129. Moris sect. 11. t. 8 f. 8.*

Leaves oblong, obtuse, toothed; upper-ones very entire.

peltatum. Flowers whorled: bractes orbicular, ciliate: calyx striate, glabrous, with oblong reticulate segments: tube of the corol shorter than the calyx.

The East. *Leaves* oblong, obtuse, toothed.

nutans. Flowers whorled: bractes oblong, ovate, very entire: corols nodding, twice as long as the calyx.

Siberia. *Gmel. fib. 3. p. 231. t. 49.*

thymifolium. Flowers whorled: bractes oblong, very entire: corols hardly larger than the calyx.

Siberia. *Gmel. fib. 3. p. 233. t. 50.*

1153. MELITTIS. Calyx unequal, wider than the tube of the corol: corol with the upper-lip flat; lower-lip 3-lobed, crenate: antheræ cohering cross-wise. *Bastard-Balm.*

* *Melisso-phylum*. Leaves opposite, equally serrate: calyx glabrous, 3-lobed. Woods. *Engl. bot. t. 577. Jacq. Austr. t. 26.*

* *grandiflora*. Leaves opposite, equally serrate: calyx glabrous, 4-lobed. Woods. *Eng. Bot. t. 636. Curt. Lond. fasc. 6. t. 39.*

japonica. Leaves alternate, unequally serrate: calyx bristly.

Japan. *Thunb. Trans. Linn. soc. 2. p. 338.*

Leaves ovate, obtuse, doubly serrate: calyx drooping.

1154. OCIMUM. Calyx with the upper-lip orbicular; lower-lip 4-cleft: corol reverted; one lip 4-cleft, the other undivided: outer stamina with a process at the base. *Basil.*

thyrsifolium. Flowers in panicled tufts: stem much branched.

India. *Murr. nov. comm. gatt. 8. p. 47. t. 5.*

Leaves elliptic-lanceolate, slightly serrate.

- inflexum.* Panicle terminal, racemed: stem and branches flexuous.
Japan. *Thunb. Jap.* 249. Stem and branches downy.
- virgatum.* Racemes whorled, wand-like: leaves oblong, serrate.
Japan. *Thunb. Jap.* 250. Stem square, deeply grooved.
- Monachorum.* Stamina toothless; every other one bearded at the base.
India. *Leaves* ovate, obtuse, naked, serrate: *racemes* whorled, 6-flowered: upper-lip of the *calyx* heart-shaped, with 3 striæ.
- gratissimum* Stem suffruticose: leaves lance-ovate: racemes cylindrical.
India. *Jacq. ic.* 3. t. 495. *Burm. zeyl.* t. 80. f. 1.
Bractes heart shaped, acute: *flowers* small, white.
- album.* Leaves ovate, obtuse: whorls of the racemes approximate; the mature ones square: corols crenate.
India; Java. *Bractes* lanceolate, hearted, acute.
- tomentosum.* Leaves ovate, toothed, hoary-downy: stem shrubby at the base.
The Cape. *Lamarck. encyclop.* 1. p. 382.
Plant villous, white: *whorls* a little distant.
- Basilicum.* Leaves ovate, glabrous: calyx ciliate.
India; Persia. *Blackw. t.* 104. *Hort. Rom.* 3. t. 84.
Stem erect, round, downy: *leaves* pubescent, brownish-red, waved, smelling like cloves: *flowers* white, small, in spiked racemes.
- grandiflorum.* Stem shrubby: leaves ovate, serrate: stamina and style very long.
Arabia Felix. *L'Herit. Airp.* 1. p. 89. t. 43.
Branches knotty: *leaves* papillous, somewhat viscid.
- minimum.* Leaves ovate, very entire.
Ceylon. *Moriss. scil.* 11. t. 10. f. 17. *Hort. Rom.* 3. t. 85.
- integerrimum.* Leaves oblong, pointed, very entire: bractes ciliate.
East Indies. *Willd. sp. pl.* 3. p. 162. n. 11.
Leaves glabrous, dotted beneath: *whorls* racemed.
- sanctum.* Leaves rather oblong, obtuse, serrate, undulate: stem hairy: bractes heart-shaped.
India. Stem rough with tubercles having a white hair: *bractes* concave, reflected: *calyx* gibbous above the base: *corol* purple.
- rugosum.* Racemes terminal: leaves ovate, acute, serrate, wrinkled underneath.
Japan. *Thunb. Jap.* 249. Stem square, grooved.
- crispum.* Racemes terminal: leaves ovate, serrate, curled: calyxes bristly.
Japan. *Thunb. Jap.* 248. Bractes oblong, glabrous.
- scabrum.* Racemes simple, erect: leaves ovate, dotted underneath, Japan. *Thunb. Jap.* 249. Bractes setaceous.

- americanum* Leaves somewhat lanceolate, pointed, slightly ferrate: racemes round: stem somewhat herbaceous.
America. *Bractes* lanceolate, ciliate.
- verticillatum.* Raceme elongated, naked: flowers whorled, in fours, peduncled: leaves obtuse.
The Cape. *Leaves* with 2 serratures each side.
- acutum.* Racemes filiform: leaves ovate, pointed, ferrate: bractes rough-haired.
Japan. *Thunb. Jap.* 248. *Bractes* ovate, acute.
- tenuifolium.* Leaves ovate-oblong, ferrate: bractes heart-shaped, reflected, concave: spikes filiform.
Malabar. *Pluk. alm. t.* 208. *f.* 4. *Burm. zeyl. t.* 70. *f.* 2.
Leaves soft: *spikes* 3 together: *flowers* very minute.
- polystachyon* Corols 4-cleft: racemes leafless, nodding at top.
East Indies, *Murr. Comm. Goett.* 3. *p.* 71. *t.* 3.
Stem with 4 acute rough angles: *leaves* ovate, obtuse, ferrate: *stamina* declined, not longer than the corol.
- serpyllifolium.* Leaves linear-lanceolate, very entire: stamina and styles very long.
Arabia Felix. *Leaves* small, hoary, covered with fine down: *bractes* minute, ovate, acute: *filaments* villous at the base.
- menthoides.* Leaves linear-lanceolate, ferrate.
Ceylon. *Filaments* declined, longer than the corol.
- molle.* Leaves ovate, hearted, acute, ferrate, wrinkled; with the lobes approximating and inflected: bractes roundish, wedge form.
East Indies. *Stem* thick: *filaments* simple.
- adscendens.* Leaves ovate, slightly toothed: whorls few-flowered: calyxes pubescent.
East Indies. *Willd. sp. pl.* 3. *p.* 166. *n.* 24.
Leaves acute at both ends, roughish underneath.
- scutellarioides.* Corols falcate: pedicels branched.
East Indies. *Rumph. amb.* 5. *p.* 291. *t.* 101.
Leaves ovate, ferrate: *bractes* hearted, sessile: *corol* with the upper-lip erect, short; lower-lip long, falcate.
- prostratum.* Stem prostrate: leaves elliptic, marked with lines.
East Indies. *Corol* minute, blueish.
- capitellatum* Herbaceous: leaves ovate: flowers clustered, petioled, lateral.
China. *Leaves* ferrate, wrinkled: *flowers* white, minute.

1155. PLECTRANTHUS. *Calyx* with the upper division larger: *corol* reversed, ringent; the tube either gibbous or spurred upwards.

fruticosus. Nectary spurred: racemes compound: peduncles 3-part-ed: stem shrubby, levigated.
The Cape. *L'Herit. stirp.* 1. p. 85. t. 41.
Leaves ovate, pointed, toothed: flowers blue.

galeatus. Nectary gibbous: pedicels branched: leaves heart-ovate, pointed, ferrate.
Java. *Vahl. symb.* 1. p. 43. Upper-lip helmeted.

nudiflorus. Nectary gibbous: panicle racemed, naked: leaves heart-shaped, wrinkled; the upper-ones clasping the stem.
China? *Willd.* 3. p. 168. Bractes hearted, entire, sessile.

Forskolæi. Nectary gibbous: racemes without bractes: stem equal.
Arabia Felix. *Vahl. symb.* 1. p. 44.
Stem hairy, not dotted: *corol* 4 times as long as the calyx.

crassifolius. Nectary gibbous: racemes with bractes: leaves ovate, fleshy.
Egypt. *Vahl. symb.* 1. p. 44. Bractes ovate.

punctatus. Nectary gibbous: flowers spiked: stem herbaceous, hairy.
Africa. *L'Herit. stirp.* 1. p. 87. t. 41.
Stem marked with oblong rufous dots: flowers drooping.

1156. TRICHOSTEMA. *Corol* with the upper-lip falcated: *stamina* very long.

dichotoma. Stamina very long, exerted from the corol.
Virginia. Flowers blue.

brachiata. Stamina short, included in the corol.
North America. *Dill. elth.* 1. 285. f. 369. Teucrium.

1157. SCUTELLARIA. *Calyx* with the border nearly entire, closed and covered with a lid after flowering. Skull-cap.

orientalis. Leaves cut, downy underneath: spikes round, square.
Armenia. *Comm. rar.* t. 30. *Mart. cent.* 18. t. 18.
Leaves longer than the petioles: flowers yellow.

grandiflora. Leaves heart-shaped, cut-crenate, pubescent both sides, shorter than the petioles: spikes very short, square: corols hairy, 4 times as long as the bractes.
Siberia. *Curt. mag.* t. 635. Flowers pale purple.

albida. Leaves somewhat hearted, ferrate, wrinkled, opaque: spikes leaning one way: bractes ovate.
The East. *Sabb. Hort. Rom.* 3. tab. 29.

- alpina*. Leaves heart-shaped, cut-ferrate, crenate: spikes imbricate, rounded-square: bractes half as long as the corol. Switzerland. *Allion pedem. n. 142. t. 26. f. 3.*
Corol violet with a whitish lip: bractes ovate, acute.
- lupulina*. Leaves heart-shaped, cut-ferrate, acute, glabrous: spikes imbricate, rounded square: bractes as long as the corol. Siberia. Stems procumbent: flowers white or blue.
- laterifolia*. Leaves smooth, with a rough keel: racemes lateral, leafy. Virginia. Leaves lanceolate, ferrate.
- * *galericulata*. Leaves heart-lanceolate, crenate, wrinkled: flowers axillary. Ditches. *Eng. Bot. t. 523. Curt. Lond. fasc. 3. t. 36.*
- bastifolia*. Leaves very entire; the lower-ones spear-shaped, upper-ones arrow-shaped: flowers axillary. Sweden; Austria. *Riv. mon. t. 77. f. 2.*
- * *minor*. Leaves heart-ovate, almost entire: flowers axillary. Marthes. *Eng. Bot. t. 524. Curt. Lond. fasc. 4. t. 43.*
- integrifolia*. Leaves sessile, ovate; the lower-ones obtusely ferrate, upper-ones very entire. Virginia; Canada. *Pluk. alm. t. 313. f. 4.*
- havannensis*. Leaves heart-ovate, crenate: flowers axillary, solitary: corol with both the lips 3-cleft. Havannah. *Jacq. obs. 2. p. 5. t. 29. Amer. f. 165.*
- purpurascens*. Leaves petioled, heart-ovate, toothed: racemes naked, terminal: corol with both the lips 3-cleft. Caribbees. *Vahl. symb. 2. p. 66. Sagarz prodr. 89.*
Flowers distant, alternate: pedicels with a bracte.
- hyssopifolia*. Leaves lanceolate, sessile, very entire. Virginia. Upper-lip of the corol with a hairy keel.
- peregrina*. Leaves heart-shaped, ferrate, glabrous: spikes elongated, leaning one way: bractes petioled, ovate, longer than the calyx. Siberia; Hungary. Leaves ovate, hearted.
- Columnæ*. Leaves oblong, hearted, ferrate, pubescent: spikes elongated, leaning one way: bractes petioled, ovate, shorter than the calyx. Italy. *Allion. pedem. t. 84. f. 2. Col. ecphr. 1. t. 189.*
- indica*. Leaves somewhat ovate, obtuse, crenate: racemes nearly naked. China. *Rumph. amb. 5. t. 170. f. 1, 2. Pluk. alm. t. 441. f. 1.*
Raceme terminal: bractes linear, very short.
- altissima*. Leaves heart-oblong, pointed, ferrate: spikes nearly naked. The East. Flowers purple, with long tubes.

cretica. Villous: leaves heart-shaped, obtuse, obtusely ferrate: spikes imbricate, with setaceous bractes.
Crete. Whole plant hairy.

1158. PRUNELLA. *Filaments* forked; one point bearing the anthera on its tip: *stigma* cloven.
Self-heal.

• *vulgaris*. Leaves petioled, oblong-ovate, toothed at the base: upper-lip of the calyx truncate, with 3 awns: stem ascending.

Pastures. *Eng. bot. t. 961. Curt. Lond fasc. 4. t. 42.*

grandiflora. Leaves petioled, oblong-ovate, toothed at the base: upper-lip of the calyx 3-cleft: stem ascending.

Europe: *Jacq. Austr. 4. t. 377. Curt. mag. t. 337.*

bysopifolia. Leaves sessile, lanceolate, very entire, rough: stem erect.
Montpellier. *Morif. 3. sect. 11. t. 5. f. 7.*

1159. CLEONIA. *Filaments* forked; one point bearing the anthera on its tip: *stigma* 4-cleft.

Iusitanica. CLEONIA.

Portugal. *Miller fig. t. 70. Morif. sect. 11. t. 5. f. 4.*

Stem erect: *filaments* spinous: *anthera* crested behind.

1160. PRASIUM. Berries 4, 1-seeded. Hedge-nettle.

majus. Leaves ovate-oblong, ferrate.

Sicily. *Hort. Rom. 3. t. 37. Morif. sect. 11. t. 21. f. 3.*

Stem declining: leaves hearted: flowers in whorls.

minus. Leaves ovate, with a double notch each side.

Sicily. Probably only a variety of the last.

1161. PHRYMA. Calyx 2-lipped, 5-toothed:
seed 1.

Leptostachia. Leaves ovate, ferrate, petioled: calyx 1-leafed, 5-cleft.

North America. *Pluk. amatb. 59. t. 380 f. 5.*

Spikes terminal, solitary: bractes 3; subulate.

debiscens. Calyx at length opening longitudinally.

The Cape. Racemes terminal: bractes solitary.

1162. SELAGO. Calyx 4-cleft: tube of the corol capillary, with a nearly equal border: *seed* 1 or 2.

corymbosa. Corymb manifold: flowers disjointed: leaves filiform, tufted, hairy.

The Cape. *Comm. hort. 2. p. 79. t. 40. Camphorata.*

cinerea. Corymb compound: leaves linear, tufted, glabrous, reflected at the edge.

The Cape. *Leaves* somewhat rigid.

polystachya. Corymb with tufted spikes: leaves filiform, aggregate.

The Cape. *Comm. hort.* 2. t. 111. Valeriana.

verbenacea. Spikes tufted: leaves oblong, glabrous: stem square, rectangular.

The Cape. *Linn. suppl.* 285.

rapunculo- Spikes corymbed: leaves toothed.

ides. The Cape. *Burm. afr.* 113. t. 42. f. 1. *Rapunculus.*

spuria. Spikes corymbed: leaves linear, denticulate.

The Cape. *Burm. afr.* 115. t. 42. f. 3. *Melampyrum.*

Spikes obtuse: corol 5-cleft, with a long slender tube.

hirta. Hairy: spikes very long: leaves obovate.

The Cape. *Linn. suppl.* 285.

rotundifolia Corymb compound: leaves ovate, glabrous, obtuse.

The Cape. *Linn. suppl.* 285.

fasciculata. Corymb manifold: leaves obovate, glabrous, serrate.

The Cape. *Jacq. ic. rar.* 3. t. 496.

Polygaloides Spikes terminal: bractes and calyxes carinate, with rough laminæ: leaves linear, glabrous, reflected at the margin.

The Cape. *Leaves* long: *spikes* pendulous.

ovata. Spikes ovate, terminal, cone-like: leaves scattered, linear: stem shrubby.

The Cape. *Curt. mag. tab.* 186.

Leaves succulent, several together: *bractes* ovate.

coccinea: Spikes corymbed: lower-leaves linear, very entire; upper-ones lance subulate, slightly toothed.

The Cape. *Amæn. acad.* 6. *Afr.* 21.

canescens. Spikes terminal: leaves filiform, tufted, glabrous.

The Cape. *Linn. suppl.* 284.

geniculata. Spikes terminal: leaves linear, tufted, glabrous, reflected at the margin.

The Cape. *Linn. suppl.* 284.

divaricata. Heads terminal: leaves filiform-linear, tufted, glabrous.

The Cape. *Linn. suppl.* 284.

capitata. Head terminal: leaves tufted, linear, fleshy, glabrous.

The Cape. *Stem* pubescent: *leaves* obtuse, glabrous.

triquetra. Spikes terminal: leaves 3-sided, imbricate, recurved or reflected, glabrous.

The Cape. *Linn. suppl.* 284.

- fraticosa.* Heads roundish, terminal : leaves scattered, linear, obtuse, very entire : stem shrubby.
The Cape. *Leaves* crowded, unequal : *heads* sessile.
- hispida.* Spikes terminal : leaves linear, scattered, reflected, bristly.
The Cape. *Linn. suppl.* 284.
- ciliata.* Flowers spiked : leaves ovate, ciliate, acute.
The Cape. *Linn. suppl.* 285.

ORDER II. ANGIOSPERMIA.

Seeds inclosed in a vessel.

1163. BARTSIA. *Calyx* 4-lobed, more or less coloured : *corol* ringent, with the orifice closed ; upper-lip concave, longer ; lower-lip equally 3-cleft, reflected : *capsule* ovate, compressed, 2-celled : *seeds* numerous, angular.

- coccinea.* Leaves alternate, linear, 2-toothed each side.
Virginia. *Moris. f.* 11. *t.* 13. *f.* 28. *Pluk. alm. t.* 102. *f.* 5.
Calyx with a red margin : *bractes* 3-cleft.
- pallida.* Leaves alternate, lanceolate, very entire ; the floral-ones ovate and toothed.
Siberia ; Hudson's Bay. *Gmel. Sib. 3. n.* 11. *t.* 42.
- * viscosa.* Upper-leaves alternate, ferrate : flowers distant, lateral : antheræ hairy.
Marthes. *Eng. Bot. t.* 1045. *Lichtf. Scot. 321. t.* 14.
- * Odontites.* Leaves lanceolate, ferrate ; upper-ones alternate : flowers racemed, leaning one way : antheræ glabrous.
Pastures. *Curt. Lond. fasc. t.* 44. Euphrasia.
- * alpina.* Leaves opposite, heart-ovate, obtusely ferrate : antheræ hairy.
Alps. *Eng. Bot. t.* 361. *Flor. Dan. t.* 43.
- gymnandra.* With 2 stamina : root-leaves 2, petioled : stem with about 2 leaves and 1 spike : spike linear, obtuse : whorls bracted, contracted.
Kamtschatka. *Pall. it. 3. p.* 710. *t. A. f.* 1.
Stem erect : *leaves* oval, succulent : *calyx* coloured, compressed, 3-toothed ; the lateral segments emarginate : *corol* pale blue.

1164. RHINANTHUS. *Calyx* 4-cleft, inflated: upper-lip of the corol compressed: capsule 2-celled, obtuse, compressed: seeds imbricate, flattish. *Rattle-grass*.

orientalis. Upper-lip of the corol subulate, incurved.
The East. *Tourn. ut. 2. t. 299.* Elephas.

Elephas. Upper-lip of the corol subulate, straight.
Italy. *Morif. sect. 11. t. 24. f. 14. Col. exphr. 1. t. 188.*
Calyx 3-cleft, 2 of the divisions reflected.

* *Crista galli*. Upper-lip of the corol emarginate, 2-toothed; middle segment of the lower-lip very short.
Meadows. *Eng. bot. t. 657. Curt. Lond. fasc. 5. t. 43.*

Trixago. Lower-lip of the corol longer than the upper; the middle segment obtuse and longer than the lateral ones: calyx villous: leaves opposite, deeply and obtusely toothed: stem quite simple.
South of Europe. *Morif. 3. sect. 11. t. 24. f. 8.*

maximus. Lower-lip of the corol longer than the upper, with obtuse equal divisions: calyx villous: upper-leaves alternate, oblong, obtusely toothed: stem branched.
Crete. *Willd. sp. pl. 3. p. 189. n. 5.*

versicolor. Corol gaping; the lower-lip longer than the upper, with obtuse segments, the middle-one narrower: calyx villous: leaves mostly opposite, lanceolate; the upper-ones toothed at the base: stem simple.
Italy; Africa. *Barr. ic. 666. Alectorolophos.*
Bractes ovate, pointed, half as large as the corol.

capensis. Corol with equal lips; the middle segment of the lower-lip shorter than the rest: calyx villous: bractes obtuse, very entire: leaves lanceolate, remotely toothed: stem simple.

The Cape. *Pluk. alm. 283. t. 310. f. 3. Pedicularis.*
Spike oblong, with ovate downy bractes: calyx downy.

indicus. Leaves somewhat lanceolate, hairy, very entire.
Ceylon. *Burm. ind. t. 39. f. 1. 2) Pluk. alm. t. 114. f. 2.*

virginicus. Corol with spreading orifice: leaves sinuate-toothed.
Virginia. *Antheræ* hairy.

trifidus. Corol with spreading orifice: leaves 3-cleft.
Armenia. *Buxb. cent. 1. p. 5. t. 8. Pedicularis.*
Stem simple, downy: leaves sessile, pubescent, with linear acute entire segments: bractes linear, villous: calyx pubescent.

1165. EUPHRASIA. *Calyx* cylindrical, 4-*cl*eft, equal: upper-lip of the *corol* cloven; lower-lip 3-lobed, with the lobes cloven: *antheræ* awned with unequal spines: *capsule* ovate-oblong, 2-celled: *seeds* striate. *Eye-bright*.

latifolia. Leaves ovate, tooth-palmate: flowers spiked: corol tubular, with the lobes of the lower-lip obtuse.
South of Europe. *Moris. f. 11. t. 24. f. 8. Hort. Rom. 3. t. 7.*
Bractes palmate, somewhat hairy.

• *officinalis*. Leaves ovate, obtusely toothed: lobes of the lower-lip of the corol emarginate.
Pastures. *Curt. Lond. fasc. 5. t. 42. Woodv. t. 220.*

salisburgen- Leaves lanceolate, with setaceous teeth: lobes of the lower-lip of the corol emarginate.
sis. Switzerland. *Willd. sp. pl. 3. p. 193. n. 3.*
Stem branched: *leaves* alternate, sessile, oblong-lanceolate, with 3—6 pointed teeth each side: *flowers* axillary.

tricuspidata Leaves wedge-linear, tricuspidate: lobes of the lower-lip of the corol emarginate.
Italy. *Pluk. alm. t. 177. f. 1. Zann. hist. t. 76.*

cuneata. Leaves wedge-ovate, toothed at top: lobes of the lower-lip of the corol slightly emarginate.
New Zealand. *Forst. prodr. 234. Willd. 3. p. 194.*

lutea. Leaves linear, ferrate; the upper-ones very entire: lateral lobes of the lower-lip of the corol denticulate.
South of Europe. *Jacq. Austr. t. 398. Moris. f. 11. t. 24. f. 16.*

linifolia. Leaves linear, all of them very entire: calyx glabrous.
Italy; France. *Col. ephr. 2. p. 68. t. 69.*

viscosa. Leaves linear-lanceolate, 3-nerved, mostly entire: calyx viscid: lateral lobes of the lower-lip of the corol emarginate.
Switzerland. *Garid. aix. 351. t. 78. Pedicularis.*

purpurea. Leaves linear, very entire, glabrous: racemes leaning one way: stamina as long as the corol; capsules villous.
Barbary. *Desfont. atl. 2. p. 36.*

longiflora. Downy viscid: leaves linear, very entire: tube of the corol filiform, thrice as long as the calyx.
Spain. *Cavan. ic. 1. t. 62. Barr. ic. 1204.*

Leaves obtuse; those of the branches imbricate: corol with the upper lip undivided; lower-lip 3-lobed, the lobes rounded.

aspera. Leaves linear, bristly, very entire: tube of the corol inflated upwards, thrice as long as the calyx.
Guinea. *Willd. 3. p. 197.* Lower-leaves opposite; all with white callous dots ending in a hair: calyx bristly, twisted after flowering.

1166. MELAMPYRUM. *Calyx* tubular, 4-cleft: upper-lip of the *corol* compressed, with the margin turned back: *capsule* 2-celled, oblique, opening at one edge: *seeds* 2, gibbous.

Cow-wheat.

* *cristatum*. Spikes quadrangular: bractes heart-shaped, compact, imbricate, denticulate.

Woods. *Eng. bot. t. 41. Moris. sect. 11. t. 23. f. 2.*

* *arvense*. Spikes conic, lax: bractes with setaceous coloured teeth: calyx with rough teeth: corol closed.

Corn fields. *Eng. bot. t. 53. Fl. Dan. t. 911.*

barbatum. Spikes conic, lax: bractes with setaceous teeth not coloured: calyx with bearded teeth: corol gaping.

Hungary. *Willd. 3. p. 198. Corol entirely yellow.*

nemorosum. Flowers lateral, leaning one way: bractes toothed, heart-lanceolate; the upper-ones coloured and steril: calyx woolly.

Europe. *Flor. Dan. t. 305. Barr. ic. 769. f. 1.*

* *pratense*. Flowers axillary, leaning one way: corol closed: leaves lanceolate; the floral-ones spear-shaped.

Groves. *Eng. bot. t. 113. Riv. mon. t. 81. f. 1.*

* *sylvaticum*. Flowers axillary, leaning one way: corol gaping: all the leaves lanceolate.

Woods. *Eng. bot. t. 804. Flor. Dan. t. 145.*

lineare. Leaves linear, very entire: flowers axillary.

Carolina. *Lamarck. encycl. 4. p. 23. Willd. 3. p. 200.*

Flowers minute: calyx half as long as the corol.

1167. LATHRÆA. *Calyx* 4-cleft: germ with a depressed gland at the base of its future: *capsule* 1 or 2-celled, mucronate: *seeds* few, angular, mucronate. *Tooth-wort.*

clandestina. Stem branched, growing under ground: flowers erect, solitary.

France; Italy. *Moris. f. 12. t. 16. f. 15. Rudb. elyf. p. 233. f. 14.*

Stem corymbed, under ground: flowers 1 from each branch.

Anblatum. Lips of the corol undivided.

The East. *Tourn. Cor. 48.*

* *Squamaria*. Stem quite simple: flowers pendulous; the lower-lip 3-cleft.

Groves. *Eng. bot. t. 50. Fl. Dan. t. 136. Blackw. t. 430.*

1168. SCHWALBEA. *Calyx* 4-cleft; the upper-lip very small; lower-lip very large and emarginate.

americana. SCHWALBEA.

North America. *Pluk. mant. t. 348. f. 2?* Euphrasia.

Stem simple, square, pubescent: *leaves* lanceolate, pubescent: *calyx* pubescent: *corol* dark red, inclined.

1169. TOZZIA. *Calyx* 5-toothed: *capsule* 1-celled, globular, 1-seeded.

alpina. TOZZIA.

Alps. *Jacq. Austr. t. 165. Moris. sect. 12. t. 16. f. antepen.*

1170. PEDICULARIS. *Calyx* mostly 5-cleft, inflated: *corol* with the upper-lip compressed and emarginate: *capsule* 2-celled, mucronate, oblique: *seeds* few, angular, mucronate.

Louse-wort.

* *palustris.* Stem solitary, branched: leaves pinnate; the segments deeply toothed: calyx ovate, hairy, ribbed, in 2 unequally notched divisions.

Marshes. *Eng. bot. t. 399. Riv. mon. t. 92.*

* *sylvatica.* Stems numerous, simple, spreading: calyx oblong, angular, nearly glabrous, in 5 unequally notched divisions.

Pastures. *Eng. bot. t. 400. Flor. Dan. t. 255.*

euphrasiodes. Stem branched: leaves pinnatifid and toothed: calyx tubular, 2-parted, truncate: upper-lip of the corol 2-toothed.

2. Calyx oblique, not divided, emarginate.

Siberia. *Gmel. Sib. 3. t. 43. 2) Houtt. syst. 8. t. 57. C.*

myriophylla. Stem slightly branched: leaves pinnate; the divisions acutely pinnatifid, in fours: calyx 5-cleft: upper-lip of the corol acute, 2-toothed.

Alps. *Pall. it. 3. app. n. 99. t. S. f. 1.*

Stem-leaves generally 4 together, pinnate, the divisions deeply pinnatifid with linear-lanceolate acute segments: *corol* yellow.

spicata. Stem slightly branched: leaves lanceolate, repand, crenate, in fours: calyx bifid, somewhat truncate: upper-lip of the corol obtuse.

Dauria. *Pall. it. 3. app. n. 100. t. S. f. 2.*

Leaves with rounded crenate segments: *bractes* entire.

- resupinata.* Stem nearly simple: leaves lanceolate, toothed, crenate: calyx bifid, truncate: upper-lip of the corol acute.
Siberia. *Gmel. Sib.* 3. p. 204. t. 44.
Leaves alternate, with acute segments.
- Sceptrum Carolinum.* Stem simple: leaves pinnatifid, with repand crenate divisions: calyx 5-cleft, crested: corol closed.
Sweden. *Fl. Lapp.* t. 4. f. 4, 5. *Fl. Dan.* t. 26.
Upper-lip of the corol obtuse: fruit nearly orbicular.
- tristis.* Stem simple: leaves pinnatifid; the segments sharply toothed: calyx 5-cleft: upper-lip of the corol obtuse, with a villous margin.
Siberia. Plant very hairy: flowers yellow.
- lapponica.* Stem simple: leaves pinnatifid, with ferrate divisions: calyx bifid, oblong: upper-lip of the corol hooked, truncate.
Lapland. *Fl. lapp.* t. 4. f. 1. *Fl. Dan.* t. 2.
Calyx with the upper-lip often 3-toothed, lower 2-toothed.
- asplenifolia.* Stem simple: leaves pinnatifid; the divisions oblong and toothed below: calyx 5-cleft, somewhat crested: upper-lip of the corol hooked, pointed, truncate with a notch.
Alps. *Willd. sp. pl.* 3. p. 208. Calyx as long as the tube.
- flava.* Stem simple: leaves deeply pinnatifid, with acute lanceolate toothed divisions: calyx 5-cleft, crested: upper-lip of the corol obtuse.
Siberia. *Pall. it.* 3. app. n. 97. t. R. f. 1.
Leaves succulent: flowers spiked, yellow.
- friata.* Stem simple: leaves deeply pinnatifid, with linear ferrulate divisions: calyx 2-lipped: upper lip of the corol 2-toothed
Dauria. *Pall. it.* 3. app. n. 98. t. R. f. 2.
Flowers spiked: bractes linear, longer than the calyx: upper-lip of the calyx 3 toothed, lower 2-parted: corol yellow with dark red veins; upper-lip very obtuse with a pointed tooth each side.
- sudetica.* Stem simple: leaves deeply pinnatifid, with linear-lanceolate unequally toothed divisions: calyx 5-cleft, hairy: upper-lip of the corol obtuse, emarginate, 2-toothed.
Siberia. *Willd. sp. pl.* 3. p. 209.
Leaves glabrous: corol purple; lateral lobes of the lower-lip ferrulate.
- recutita.* Stem simple: leaves deeply pinnatifid, with lanceolate pinnatifid toothed divisions: spike compact, leaty: calyx glabrous, 5-toothed: upper-lip of the corol very obtuse.

Alps. *Jacq. Austr. t. 258. Hall. helv. n. 316. t. 8. f. 2.*
Calyx coloured: upper-lip of the corol not toothed.

elata. Stem simple: leaves deeply pinnatifid, with linear-lanceolate crenate divisions: spike lax, somewhat leafy: calyx glabrous, 5-toothed: upper-lip of the corol obtuse, truncate.

Siberia. *Gmel. Sib. 3. p. 211. Willd. 3. p. 210.*

Corol purple, the tube thrice as long as the calyx; upper-lip not 2-toothed; lower-lip crenulate, with the middle division longer and mucronate: spike very long.

foliosa. Stem simple: stem-leaves deeply pinnatifid, with lanceolate pointed pinnatifid toothed divisions: spike leafy: calyx 5-toothed; the upper-tooth very large: upper-lip of the corol very obtuse.

Alps. *Jacq. Austr. t. 139. Hall. helv. n. 317. t. 9. f. 3.*

canadensis. Stem simple: spike somewhat leafy: calyx truncate downwards: upper-lip of the corol with 2 setaceous teeth.

North America. Spike ovate: calyx pubescent, obliquely cut.

grœnlandica. Stem simple: leaves deeply pinnatifid, with lanceolate pointed ferrate divisions: calyx glabrous, 5-toothed: corol closed, with the upper-lip hook-fimbriate.

Greenland. *Flor. Dan. t. 1166. Calyx* oblong.

incarnata. Stem simple: leaves deeply pinnatifid, with unequally toothed linear-lanceolate divisions: calyx villous, 5-cleft: upper-lip of the corol hooked, pointed.

Alps. *Jacq. Austr. t. 140. Allion. Ped. t. 3. f. 2. t. 4. f. 2.*

Flowers purple, in a terminal longish spike.

uncinata. Stem simple: stem-leaves deeply pinnatifid, with linear-lanceolate doubly toothed divisions: calyx rounded, glabrous, 5-toothed: upper-lip of the corol hooked, pointed.

P. incarnata. Sp. pl. 847. Pall. it. 2. p. 404.

Siberia. *Gmel. Sib. 3. p. 209. tab. 45.*

Spike naked: flowers yellow.

interrupta. Stem simple: leaves in fours, deeply pinnatifid, with lanceolate unequally toothed divisions: spike whorled, elongated: calyx villous, 5-toothed: upper-lip of the corol obtuse.

Siberia. *Wild. sp. pl. 3. p. 214.*

Leaves 3 or 4 in a whorl: spike near a foot long: bractes ovate, concave, pointed, very entire.

- verticillata* Stem simple: stem-leaves pinnatifid, in fours, with oblong, obtuse, toothed divisions: spike forming a head: calyx hairy, 5-toothed: upper-lip of the corol very obtuse.
Austria. *Jacq. Austr. t. 206. Hall. belv. t. 9. f. 1.*
Calyx membranaceous, hairy, with short teeth.
- acaulis.* Stemless: leaves pinnate, with ovate, obtuse, toothed divisions: peduncles 1-flowered: calyx 5-toothed, crested; upper-lip of the corol elongated, obtuse.
Carniola. *Jacq. collect. 1. t. 14. Scop. Carn. t. 31.*
Calyx with lanceolate toothed segments: corol pale.
- flammea.* Stem simple: leaves pinnate, with imbricate ovate obtuse doubly toothed divisions: calyx 5-toothed: upper-lip of the corol obtuse.
Lapland. *Fl. lapp. t. 4. f. 2. Hall. belv. t. 8. f. 3.*
Root tuberous, pendulous: calyx pale, spotted with red: corol yellow, with a scarlet spot each side the upper-lip.
- hirsuta,* Stem simple: leaves pinnate, with lanceolate obtusely toothed divisions: calyx hairy, 5-cleft: upper-lip of the corol very obtuse.
Lapland. *Fl. lapp. t. 4. f. 3.* Corol flesh-colour.
- rosea.* Stem simple: leaves pinnate, with pinnatifid linear acute divisions: calyx hairy, 5-cleft: upper-lip of the corol obtuse.
Alps. *Jacq. ic. rar. 1. t. 113. All. ped. t. 3. f. 1.*
- rostrata.* Stem simple, ascending: leaves pinnate, with pinnatifid toothed divisions: calyx 5-toothed, crested: upper-lip of the corol with a hooked point, truncate.
Europe. *Jacq. Austr. t. 205. Hall. belv. t. 8. f. 1.*
Stems decumbent: calyx hairy, with toothed segments.
- tuberosa.* Stem simple, erect: leaves pinnate, with deeply pinnatifid toothed divisions: calyx 5-cleft, somewhat crested: upper-lip of the corol hooked, pointed, emarginate.
Alps. *Hall. belv. n. 323. t. 10.* Corol yellow.
- gyroflexa.* Stem simple: leaves pinnate, with deeply pinnatifid obtuse divisions: calyx 5-cleft, crested: upper-lip of the corol hooked, obtuse, emarginate, 2-toothed.
Alps. *Vill. delph. 2. t. 9. Hall. belv. n. 324. t. 11.*
Flowers purple: segments of the calyx deeply toothed.
- fasciculata.* Stem simple: leaves pinnate, with deeply pinnatifid toothed divisions: calyx 5-cleft, crested: upper-lip of the corol hooked, 3-toothed at the tip.
Alps of Italy. *Billard app. altera fl. pedem. ined.*
Root tuberous, fascicled: flowers purple.

rubens. Stem simple: leaves pinnate, with pinnatifid linear acute divisions: spike leafy: calyx glabrous, unequally 5-cleft: upper-lip of the corol obtuse, 2-toothed.

Siberia. *Willd. sp. pl.* 3. p. 219.

Calyx red, glabrous; *corol* purple.

compacta. Stem simple: leaves pinnate, with lanceolate pinnatifid divisions confluent at top: spike forming a head, naked: calyx glabrous, 5-cleft: upper-lip of the corol hooked, emarginate, crenate in the notch.

Siberia. *Willd.* 3 p 219. Flowers yellow.

acbillifolia Stem simple: leaves pinnate, with pinnatifid linear toothed divisions: spike naked, elongated: calyx unequally 5-cleft, acute: upper-lip of the corol 2-toothed.

Siberia. *Willd.* 3. p. 219. *Calyx* pubescent: *corol* yellow.

comosa. Stem simple: leaves pinnate, with pinnatifid slightly toothed divisions: spike leafy: calyx 5-cleft: upper-lip of the corol 2-toothed.

Alps. *All. ped. n.* 229. t. 4. f. 1. *All. spec. t.* 11. f. 1.

Root tuberous: *spike* leafy: *corol* ochraceous.

1171. GERARDIA. *Calyx* 5-cleft: *corol* 2-lipped; the lower-lip 3-parted, with the lobes emarginate, the middle-one 2-parted: *capsule* 3-celled, gaping.

tuberosa. Leaves somewhat ovate, downy, repand, as long as the stem.

America. *Plum. ic. t.* 75. f. 2. *Root* tuberous.

delpbinifolia Leaves linear, pinnatifid: stem slightly branched.

East Indies. *Roxb. Corom.* 1. t. 90. *Pluk. alm. t.* 358. f. 3.

Leaves filiform, 3-parted or pinnate: *corol* rosy.

purpurea. Leaves linear, undivided,

Virginia, *Pluk. mant. t.* 338. f. 1. *Digitalis.*

Corol purple, wheel-shaped, campanulate or tubular.

tenuifolia. Leaves linear; the floral-ones filiform, inflected: peduncles opposite,

North America. *Pluk. alm. t.* 12. f. 4. *Antirrhinum.*

tubulosa. Smooth; leaves linear, very entire, acute: tube of the corol longer than the calyx.

The Cape. *Linn. suppl.* 270.

Nigrina. Rough: leaves lanceolate, serrate towards the bottom: stem square.

The Cape. *Berg. Cap.* 162. *t.* 3. *f.* 4. *Melasma*.

Bractes 2, lanceolate, shorter than the flower.

flava. Leaves lanceolate, pinnate-toothed: stem quite simple.
Virginia. *Pluk. mant.* *t.* 368. *amaltb.* *t.* 389. *f.* 1.
Spike terminal, lax, of large yellow flowers.

scabra. Bristly, rough: leaves oblong, pinnatifid.

The Cape. *Linn. suppl.* 279.

Pedicularia Leaves oblong, doubly ferrate: stem panicled: calyx crenate.

Virginia. *Corol* oblong, pubescent outwardly.

japonica. Leaves petioled, ovate, cut-pinnatifid: stem simple.
Japan. *Thunb. Jap.* 251. Peduncle shorter than the leaf.

glutinosa. Leaves ovate, ferrate: bractes linear, bristly.
China. *Osb. it.* *p.* 229. *t.* 9. Racemes terminal.

sessiflora. Stem-leaves and floral-ones heart-shaped, sessile, ferrate at the base.

The Cape, *Vahl. symb.* 3. *p.* 79. Calyx glabrous.

1172. CHELONE. *Calyx* 5-leaved: *corol* ringent, inflated: *rudiment* of a fifth filament between the upper-stamina glabrous: *capsule* 2-celled.

glabra. Leaves petioled, lanceolate, ferrate; the upper-ones opposite.

Virginia; Canada. *Flowers* white, spiked.

obliqua. Leaves petioled, lanceolate, ferrate, opposite.
Virginia. *Miller fig.* *t.* 93. *Pluk. mant.* *t.* 348 *f.* 3.

Ruelloides. Root-leaves petioled, ovate, ferrate; stem-leaves opposite, clasping the stem: peduncles elongated: calyx ciliate.

Magellan's Straits. *Stem* decumbent: *leaves* cinereous underneath: *peduncles* opposite, 1-flowered: *corol* curved, purple.

barbata. Root-leaves petioled, spatulate-lanceolate, very entire; stem-leaves lanceolate, sessile: peduncles elongated: lower-lip of the corol bearded.

Mexico. *Cavan. ic.* 3. *p.* 22. *tab.* 242.

Flowers scarlet, nodding, in a terminal panicle: *calyx* with glabrous obtuse leaflets: upper-lip of the *corol* straight, emarginate; lower 3-parted, with acute reflected divisions, and clothed with thick yellow wool at the throat.

1173. PENTSTEMON. *Calyx* 5-leaved: *corol* 2-lipped, inflated: *rudiment* of a fifth filament bearded: *capsule* 2-celled.

birsuta. Stem and leaves hairy.

Virginia. *Flowers* pure white.

pubescens. Stem pubescent: barren filament bearded from the tip to below the middle.

Virginia. *Moris. sect. 11. t. 21. f. 2, 3.*

Corol perfonate, purplish-white; upper-lip shorter.

laevigata. Stem glabrous: barren filament bearded upwards: lower-leaves very entire.

North America. *Moris. 2. sect. 5. t. 8. f. 6.*

Upper-leaves clasping the stem, lanceolate, toothed.

campanulata. Stem glabrous: barren filament bearded upwards: leaves lanceolate, pointed, all of them deeply ferrate.

Mexico. *Andrews bot. repos. t. 40. Cavan. ic. t. 29.*

Flowers violet, leaning one way, in a terminal panicle.

1174. CYRILLA. *Calyx* superior, 5-leaved: *corol* funnel-form, declined; the border flat, 5-parted, nearly equal: *rudiment* of a fifth filament: *capsule* half 2-celled.

pulchella. CYRILLA.

Jamaica. *Cart. mag. t. 374. Brown Jam. t. 30. f. 1.*

Leaves petioled, 3 together, ovate, toothed, hairy: *peduncles* axillary, 1-flowered: *flowers* scarlet.

1175. GLOXINIA. *Calyx* superior, 5-leaved: *corol* campanulate, with the border oblique: *rudiment* of a fifth filament inserted into the receptacle.

maculata. GLOXINIA.

Carthagea. *Ekret. pict. t. 9. f. 2. Hort. cliff. t. 18.*

Stem simple, spotted: *root-leaves* heart-shaped, obtuse, doubly toothed, reddish underneath; *stem-leaves* roundish-ovate, simply toothed: *peduncles* axillary, 1-flowered: *corol* pubescent outwardly.

1176. GESNERIA. *Calyx* 5-cleft, seated on the germ: *corol* incurved and recurved: *capsule* inferior, 2-celled.

humilis. Leaves lanceolate, ferrate, sessile: *peduncles* branched, many-flowered.

South America. *Plum. ic. 133. f. 2. Flower* yellowish.

- corymbosa*. Leaves ovate, acute, ferrate, scarious, rough: peduncles many-parted: flowers corymbed.
Jamaica. *Swartz prodr.* 89. *Willd.* 3. p. 230.
- acaulis*. Leaves lance-ovate, ferrate, slightly petioled, crowded at the end: peduncles 3-flowered, shorter than the leaves.
Jamaica. *Sloane Jam.* 1. t. 102. f. 1. Flowers scarlet.
- pumila*. Stemless: leaves wedge-ovate, crenate, nearly sessile: peduncles about 2 flowered. shorter than the leaves.
Jamaica. *Swartz prodr.* 90. *Willd.* 3 p. 231.
- Cranolaria* Leaves wedge-oblong, with jagged teeth: peduncles terminal: corols campanulate.
Hispaniola. *Plum. gen.* 27. t. 137. Flowers green-yellow.
- grandis*. Leaves broad-lanceolate, very long, denticulate, hairy above, rough underneath: peduncles terminal: stem arboreseent.
Jamaica. *Plum. gen.* 27. t. 134.
- tomentosa*. Leaves ovate-lanceolate, crenate, rough-haired: peduncles lateral, very long, bearing the flowers in a corymb.
South America. *Jacq. Amer.* t. 175. f. 64. *Sloan.* 1. t. 104. f. 2.
Leaves hoary underneath: flowers purple.
- scabra*. Leaves ovate-lanceolate, ferrate, rough: peduncles axillary: corols cylindrical, recurved.
Jamaica. *Swartz prodr.* 89. *Willd.* 3. p. 232.
Leaves obtuse with a point, remotely denticulate.
- exserta*. Leaves ovate-lanceolate, crenate, glabrous: peduncles 3-flowered: stamina and style twice as long as the corol: capsules ovate.
Jamaica. *Swartz prodr.* 89. *Willd.* 3. p. 232.
- calycina*. Leaves lance-ovate, pointed, ferrate, glabrous: peduncles 3-flowered: stamina and style longer than the corol: calyx campanulate: capsule cylindrical.
Jamaica. *Swartz prodr.* 90. *Willd.* 3. p. 232.
- ventricosa*. Leaves elliptic, pointed, crenate, glabrous: peduncles 3 or 4-flowered: segments of the calyx subulate, elongated: corols inflated.
West India Islands. *Swartz prodr.* 90.

1177. ANTIRRHINUM. Calyx 5-parted: corol with a nectariferous prominence at its base, pointing downwards; the orifice closed and furnished with a cloven convex palate: capsule 2-celled. Snapdragon. Toad-flax.

A. *Leaves angular: capsules many-valved.*

- *Cymbalaria*. Leaves heart-shaped, 5-lobed, alternate, glabrous: stems procumbent.
Old walls. *Eng. bot. t. 502. Curt. Lond. fasc. 1. t. 45.*
- pilosum*. Leaves kidney-form, repand, alternate, very hairy: stems procumbent.
Pyrenees. *Jacq. obs. 2. p. 29. tab. 48.*
- lanigerum*. Leaves heart-ovate, very entire, alternate, nearly sessile, villous: stem prostrate.
Africa. *Desfont. atl. 2. p. 38. t. 130.*
Leaves woolly, entire or furnished with a few teeth.
- dentatum*. Leaves oblong: the lower-ones tooth-angular at the base, floral-ones very entire: stems prostrate, very hairy.
Tunis. *Vabl. symb. 2. t. 38. Desfont. atl. 2. t. 131.*
Leaves slightly villous, pale green: corol pubescent.
- heterophyllum*. Leaves alternate; the upper-ones lanceolate, lower-ones oblong and spear-shaped: stem prostrate, glabrous.
Morocco. *Willd. sp. pl. 3. p. 244.*
Spur lance-subulate, straight.
- *Elatine*. Leaves hairy, spear-shaped, alternate: stems procumbent.
Corn-fields. *Engl. bot. t. 692. Curt. Lond. fasc. 1. t. 46.*
- elatinoides*. Leaves glabrous, oblong, alternate; the lower-ones nearly sessile, repand, toothed, upper-ones sessile and very entire: stem procumbent: calyx membranaceous at the edge.
Africa. *Desfont. atl. 2. p. 39. tab. 132.*
- *spurium*. Leaves hairy, alternate, roundish-ovate; the lower-ones obsolete toothed: stem procumbent.
Corn fields. *Engl. bot. t. 691. Curt. Lond. fasc. 3. t. 37.*
- cirrhosum*. Leaves spear-shaped, alternate: stems spreading: petioles every where tendrilled.
Egypt. *Jacq. hort. t. 82. Till. pis. t. 32. f. 2.*
Stems filiform, prostrate: leaves a little shining: corol pale blue, the palate whitish with purplish dots: spur straight.
- egyptiacum*. Leaves spear-shaped, alternate: stem erect, much branched: peduncles becoming rigid.
Egypt. *Spur bluish, recurved, as long as the flower.*
- fruticosum*. Leaves spear-shaped, alternate: stem erect, shrubby: peduncles shorter than the leaves.
Africa. *Desfont. atl. 2. p. 39. t. 135.*
- hexandrum*. Leaves heart-ovate, serrate, opposite: stem prostrate: peduncles twice as long as the leaves.
Otaheite. *Forst. prodr. n. 235. Willd. 3. p. 237.*

B. *Leaves opposite: capsules many-valved.*

- triphyllum.* Leaves in threes, ovate, obtuse, 3-nerved, rough at the edge: spike terminal: flowers peduncled.
Spain. *Curt. mag. t. 324. Cavan. ic. 2. t. 197.*
- latifolium.* Leaves in threes, ovate-lanceolate, 3-nerved: spike terminal: flowers sessile.
Africa. *Desfont. atl. 2. p. 40. tab. 134.*
Bractes linear-lanceolate, as long as the calyx.
- virgatum.* Leaves in threes, oblong, acute: spike terminal: flowers nearly sessile: calyx straight, longer than the corol: stem quite simple.
Algeira. *Desfont. atl. 2. p. 41. t. 135.*
Upper-leaves scattered: *flowers* blue.
- triornithophorum.* Leaves in fours and threes, lanceolate: stem erect, branched: flowers peduncled.
Portugal; America. *Curt. mag. t. 325. Herm. lugdb. t. 377.*
- purpureum.* Leaves in fours, linear-lanceolate: stem when in flower erect, spiked.
Mount Vesuvius. *Curt. mag. t. 99. Corol* violet.
- versicolor.* Leaves linear-lanceolate; the lower-ones in threes: stem erect, spiked.
South of France. *Jacq. ic. rar. 1. t. 116.*
Upper-leaves alternate: *calyx* and *peduncles* glandular hairy: *corol* pale yellow; *spur* straight, subulate, violet.
- linarioides.* Leaves in threes, linear-lanceolate: stem erect, racemed.
South of Europe. *Upper-lip* of the corol whitish.
- * repens.* Leaves linear, glabrous; the lower-ones in fours or fives: stem panicled: calyx glabrous, as long as the spur.
Chalk hills. *Dill. elsb. 198. t. 163. f. 197.*
- monopessularum.* Leaves linear, crowded: stem shining, panicled: peduncles spiked, naked.
France. *Spur* straight, shorter than the calyx.
- sparteum.* Leaves subulate, channelled, fleshy; the lower-ones in threes: stem panicled, glabrous: corol glabrous.
Spain. *Curt. mag. t. 200. Cavan. ic. 1. t. 32.*
- bipunctatum.* Leaves linear, glabrous; the lower-ones in fours: stem erect, panicled: flowers in spiked heads.
Italy; Spain. *Leaves* sessile, flat, spreading: *flowers* sessile, yellow with 2 fulvous dots in the palate.
- amethystinum.* Leaves linear, glabrous; the lower-ones in fours: stem simple: raceme about 4-flowered: spur twice as long as the corol.
Spain; Portugal. *Cavan. ic. 1. p. 20. t. 33. f. 1.*
Raceme of 3 or 4 flowers on short peduncles: *peduncles* hairy: *corol* white, the palate dotted with yellow; *spur* violet.

- laxiflorum*. Leaves linear, glabrous; the lower-ones in fours: stem simple, ascending: flowers racemed: peduncles as long as the spur, which is twice as long as the corol.
Africa. *Desfont. atl. 2. p. 45. tab. 138.*
Calyx glabrous: corol pale blue or white.
- triste*. Leaves linear, scattered; the lower-ones opposite: spur subulate: flowers sessile.
Gibraltar. *Curt. mag. t. 74. Mill. fig. t. 166.*
Leaves somewhat fleshy, convex: flowers brown.
- Hælava*. Leaves linear-lanceolate; the lower-ones mostly in fours, glabrous: flowers in heads: calyx hairy: stem nearly simple.
Egypt. *Vahl. symb. 2. p. 66.* Bractes and calyx hairy.
- thymifolium*. Leaves in threes and opposite, oval, glabrous: flowers in heads: stems procumbent.
Bajonna. *Vahl. symb. 2. p. 67.* Corol pale yellow.
- supinum*. Leaves in threes or fours, linear: stem diffuse: flowers racemed: spur straight.
France; Spain. Stem hairy: spur recurved.
- simplex*. Leaves nearly linear; the lower-ones in fours: calyx with viscid hairs: flowers racemed; spur straight: stem erect.
South of Europe. *Jacq. ic. rar. 3. t. 499.*
Stem stiff: corol yellow, with a straight spur.
- arvense*. Leaves linear; the lower-ones in fours: calyx with viscid hairs: flowers racemed; spur recurved: stem erect.
Europe. *Dill. elth. t. 163. f. 198. Hort. Rom. 3. t. 5.*
Flowers small, spiked: bracte reflected: leaves glabrous.
- pelisserianum*. Stem-leaves linear, alternate; radical-ones lanceolate, in threes: flowers corymbed.
France; Italy. *Hort. Rom. 3. t. 4. Barr. ic. 1162.*
Corol violet with a white palate; spur straight.
- parviflorum*. Leaves lanceolate, pointed; the lower-ones in threes: flowers racemed, nearly sessile; spur longer than the corol: stem erect, with stiff branches.
Levant; Africa. *Desfont. atl. 2. p. 44. t. 137.*
- flavum*. Leaves lanceolate, alternate; the lower-ones in threes, obovate: flowers in heads: calyx glabrous: stem simple, erect.
Barbary. *Desfont. atl. 2. p. 42. t. 136.*
- saxatile*. Leaves lance-linear, scattered, villous; the lower-ones in fours: stem decumbent: flowers spiked.
Spain. Leaves pubescent-viscid: calyx woolly: corol deep yellow, with 2 fulvous dots in the palate and 2 in the throat.

micranthum Leaves oblong-lanceolate, obtuse, in fours or threes; the upper-ones mostly alternate: flowers nearly in heads; spur very short, straight.

Spain. *Cavan. ic.* 1. p. 51. t. 69. f. 3.

viscosum. Stem-leaves linear, alternate; root-leaves lanceolate, in fours: calyx villous, placed near the stem.

Spain. Leaflets of the *calyx* with a green viscid-hairy keel.

aparinoides. Leaves linear, scattered; those on the barren stems 6 in a whorl: stem simple: raceme ovate: calyx villous.

Africa. *Desfont. atl.* 2. t. 140. *Linaria heterophylla*.

Raceme thick, ovate, terminal: corol yellow.

multicaule. Leaves in fives, linear, fleshy: flowers in heads.

Sicily; The East. *Bocc. sic.* 38. t. 19. f. 1.

Stems rush-like, lax: leaves linear, obtuse.

reticulatum. Leaves linear, channelled, scattered; those on the radical shoots in fours or fives: calyx hairy: peduncles shorter than the bractes.

Africa. *Smith ic. pict.* tab. 2.

marginatum Leaves lanceolate, acute, alternate; the lower-ones in fives: stem decumbent, paniced: flowers in heads; spur ascending, longer than the corol.

Africa. *Desfont. atl. soc. Par.* 1. p. 36. t. 7.

Corol pale yellow. with 2 dark red spots.

glaucum. Leaves in fours, subulate, fleshy: stems erect: flowers spiked.

South of Europe. *Buxb. cent.* 4. p. 23. t. 37.

alpinum. Leaves in fours, linear-lanceolate, glaucous: stem diffuse: flowers racemed; spur straight.

Alps. *Curt. mag.* t. 207. *Jacq. Austr.* t. 58.

Leaves in very remote whorls: segment of the *calyx* longer.

aphyllum. Scape leafless, capillary.

The Cape. *Linn. suppl.* 280.

bicorne. Leaves opposite, oval-oblong, ferrate: stem erect: flowers racemed: capsules 2-horned.

The Cape. *Burm. afr.* 211. t. 75. f. 3.

macrocarpum. Leaves opposite, ovate, ferrate, petioled: peduncles axillary, 1-flowered: capsules compressed, carinate, truncate.

The Cape. *Aiton Kew.* 2. p. 335. *Vabl. symb.* 2. p. 66.

Spur straight, obtuse, half as long as the corol.

villosum. All the leaves opposite, ovate, villous: stems simple: opposite, lateral.

Spain. *Barr. ic.* 597. Plant very hairy.

- origanifolium*. Leaves obovate, opposite; the floral-ones alternate: stem ascending, pubescent: spur straight.
Pyrenees. *Barr. ic.* 598, 1102, 1103, 1313.
- flexuosum*. Leaves obovate, opposite; the floral-ones alternate: stem prostrate, flexuous, glabrous: spur recurved.
Near Tunis. *Desfont. atl.* 2. p. 47. t. 139.
- minus*. Leaves mostly alternate, lanceolate, obtuse, pubescent: stem much branched, diffuse: calyx longer than the spur.
Corn fields. *Curt. Lond. fasc.* 5. t. 41. *Fl. Dan.* t. 502.
- C. *Leaves alternate: capsules many valved.*
- dalmaticum*. Leaves alternate, heart-shaped, clasping the stem.
Crete. *Buxb. cent.* 1. p. 95. tab. 24.
Flowers solitary, peduncled, from the wings of the leaves.
- hirtum*. Leaves lanceolate, hairy, alternate: flowers spiked: upper division of the calyx very large.
Spain. *Jacq. ic.* 1. t. 117. *Curt. mag.* t. 368.
- genistifolium*. Leaves lanceolate, pointed: panicle wand-like, flexuous.
Siberia. *Jacq. Austr.* t. 224. Leaves glabrous.
- lanceum*. Leaves linear, alternate: stem panicled, wand-like: flowers racemed.
Spain. *Leaves* somewhat fleshy, round underneath: corol yellow, with a fulvous glabrous palate and long acute yellow spur.
- Linaria*. Leaves lance-linear, crowded: stem erect: spikes terminal, compact: calyx glabrous, shorter than the spur.
2. Corol regular. *Eng. bot.* t. 260. *Curt. Lond. fasc.* 6. t. 41.
Hedges. *Eng. bot.* t. 658. *Curt. Lond. f.* 1. t. 47. *Woodv.* 221.
- linifolium*. Leaves lanceolate, alternate, 3-nerved: flowers racemed: peduncles distant, shorter than the bracte.
Italy. *Buxb. cent.* 1. p. 16. t. 25. f. 2. *bad.*
Corol yellow; spur straight, as long as the flower.
- Lagopodium*. Leaves scattered, soft, recurved at top: spikes ovate, villous.
Siberia. *Flowers* small, yellow.
- anadense*. Leaves alternate, linear, remote, glabrous: flowers racemed: stem quite simple: shoots procumbent.
Virginia. *Corol* with the upper-lip short, reflected; lower-lip large, spreading, dependent; spur subulate.
- balanense*. Leaves linear-lanceolate, alternate: flowers racemed: calyx longer than the corol: stem erect.
Italy. *Morif. sect.* 5. t. 55. f. 9. *Riv. mon.* t. 80. f. 2.

reflexum. Leaves oblong, glabrous; the lowest ones in threes, upper-ones alternate: peduncles axillary: stem ascending.

Barbary. *Allion. Misc. Taur.* 2. p. 205. t. 1.

Calyx pointed: *spur* as long as the flower.

pedunculatum. Leaves alternate, linear, remote: flowers panicled: peduncles stiff, longer than the leaves.

Spain. *Corol* yellow, with blue streaks outwardly.

D. *Corols* without *spur*: *capsules* perforated with 3 pores.

• *majus*. *Corols* without *spur*: leaves lanceolate, scattered: flowers racemed: segments of the *calyx* with viscid glandular hairs, ovate, obtuse.

Old walls. *Eng. bot.* t. 129. *Riv. mon.* t. 82 f. 1.

1. Stem erect: leaves ovate. 2) Stem diffuse: leaves lanceolate.

siculum. *Corols* without *spur*: leaves linear-lanceolate, in threes: flowers racemed: segments of the *calyx* with viscid glandular hairs, lanceolate, rather acute.

Sicily. *Willd.* 3. p. 257. *Corol* pale yellow.

sempervirens. *Corols* without *spur*: leaves evergreen, elliptic, opposite: peduncles axillary: stem divaricate, shrubby.

Pyrenees. *Lapeyr. pyr.* 1. p. 7. *tab.* 4.

Leaves pubescent: *flowers* reddish-white.

* *Orontium*. *Corols* without *spur*: flowers somewhat spiked: divisions of the *calyx* linear-lanceolate, longer than the corol.

Corn fields. *Eng. bot.* t. 1155. *Curt. Lond. fasc.* 4. t. 45.

papilionaceum. *Corols* without *spur*: flowers axillary: leaves fleshy: *calyx* papilionaceous.

Persia. *Burm. ind.* 131. t. 39. f. 2.

Leaves alternate, ovate, entire: upper leaf of the *calyx* heart-shaped, nearly as long as the flower, the others somewhat lanceolate and half as long as the flower.

Asarina. *Corols* without *spur*: leaves opposite, heart-shaped, cre-nate: stems procumbent.

Geneva. *Kniph. cent.* 1. t. 6. *Lob. ic.* 601.

molle. *Corols* without *spur*: leaves opposite, ovate, downy: stems procumbent.

Spain. *Corol* villous, white with a yellow palate.

E. *Leaves* pinnatifid.

pinnatum. Leaves opposite, pinnatifid: stem erect: flowers racemed.

The Cape. *Linn. suppl.* 280.

unilabiatum. *Corols* without *spur*, with 2 callosities: leaves alternate, pinnatifid: stem panicled.

The Cape. *Linn. suppl.* 279.

1178. ANARRHINUM. *Calyx* 5-leaved: *corol* with a nectariferous prominence at its base pointing downwards; the upper-lip flat, without palate, and the orifice pervious: *capsule* 2-celled, many-valved.

bellidifolium Root-leaves obovate-lanceolate, obtuse, ferrate; stem-leaves 3 or 5-parted, with entire segments.

Montpellier. *Bauh. prodr.* t. 106. *Park. parad.* 267. f. 3.

Flowers blueish, nodding, minute: *spur* reflected.

pedatum. Root-leaves lanceolate, rather acute, coarsely toothed; stem-leaves sessile, pedate, with entire divisions.

Algeira. *Desfont. atl.* 2. p. 51. t. 141.

Corol white, hairy: *spur* tubulate, short, ascending.

fruticosum. Lower-leaves wedge-form, 3-toothed; upper-ones linear-lanceolate, very entire: racemes filiform: stem shrubby.

Mount Atlas. *Desfont. atl.* 2. p. 52. t. 142.

Leaves evergreen; *flowers* white, without spur.

crassifolium Leaves opposite, ovate, acute, glabrous: stem ascending: raceme corymbed.

Valentia. *Cavan. ic.* 2. p. 11. t. 114. *Antirrhinum.*

Leaves thickish, revolute at the edge: *flowers* spurred.

tenellum. Leaves opposite, heart-ovate, acute, villous: stem procumbent, villous; peduncles axillary.

Valentia. *Cavan. ic.* 2. p. 61. t. 180. f. 1.

Plant very villous: *corol* white, spurred.

1179. CYMBARIA. *Calyx* 10-toothed: *capsule* heart-shaped, 2-celled.

daurica. CYMBARIA.

Dauria. *Amm. ruth.* 47. tab. 1. f. 2.

Plant hoary: *flowers* lateral, large: *corol* ringent; upper-lip vaulted, cloven; lower-lip equal, 3-cleft; palate gibbous.

1180. TOURRETTIA. *Calyx* 2-lipped: *corol* without any upper-lip, in the place of which are 2 small teeth: *capsule* prickly, 4-celled, 2-valved.

lappacea. TOURRETTIA.

Peru. *L'Herit. stirp. nov.* 1. p. 33. t. 17. *Dombeja.*

Stem climbing, fistulous: *leaves* opposite; those next the root ternate, with lateral 2-parted leaflets; those of the next knot doubly ternate without tendril; those on the upper knots of the stem ternately decompound, with the common petiole running out into a branched convolute tendril: *flowers* in a naked terminal raceme.

1181. MARTYNIA. *Calyx* 5-cleft: *corol* ringent: *capsule* woody, covered with a bark, with a hooked beak, 4-celled, 2-valved.

diandra. Stem branched: leaves opposite, heart-shaped, toothed: flowers with 2 stamina.

Mexico. *Ehret. pict. t. 1. f. 5. Jacq. hort. schænb. 3. t. 289.*

Carniolaria Stem branched: leaves opposite, 5-lobed, toothed.

Carthagenæ. *Ehret. pict. t. 1. f. 2. Jacq. Amer. 3. t. 110.*

Calyx ovate, with 2 bractes at its base,

Proboscidea Stem branched: leaves alternate, heart-shaped, entire.

Mississippi. *Miller fig. t. 286. Hort. Rom. 2. t. 91.*

Fruit with a long incurved hooked beak.

longiflora. Stem simple: leaves roundish, repand: tube of the corol gibbous and flattened at the base.

The Cape. *Meerb. ic. 7. Aiton Kew 2. p. 339.*

Leaves opposite, 3-nerved: *flowers* axillary, solitary: in the place of stipules at the base of the peduncles is a gland or cup with a ball in it, having as it were a short style and stigma,

1182. TORENIA. *Calyx* 2-lipped; the upper-lip slightly 3-toothed: *capsule* 2-celled, 2-valved, hid in the calyx.

asiatica. Plant glabrous: stem creeping.

India. *Lamarck. gen. t. 523. f. 1. Rheed. Mal. 9. t. 53.*

Whole plant glabrous: *leaves* on long petioles.

hirsuta. Plant hairy: stem erect.

East India. *Lamarck. gen. t. 523. f. 2. Roxb. Corom. 2. t. 161.*

Leaves on short petioles, opposite, heart-shaped, serrate: *flowers* axillary, solitary, peduncled.

1183. BESLERIA. *Calyx* 5-parted: *berry* nearly globular, many-seeded.

melittifolia. Peduncles branched: leaves ovate.

Guiana. *Aubl. Gui. 2. p. 636. Plum. ic. 48.*

Leaves opposite, nerved, crenate: *flowers* axillary.

lutea. Peduncles simple, crowded: leaves ovate-lanceolate, serrate.

Guiana. *Plum. ic. 49. f. 1, 2. Jacq. pict. 92.*

Flowers small, tubular, pale yellow.

violacea. Peduncles in raceme-like panicles, terminal: leaves ovate, very entire.

Guiana. *Aubl. Gui. 2. tab. 254.*

Strub climbing: *leaves* glabrous: *berry* eatable.

- incarnata.* Peduncles simple, solitary : leaves oblong, crenate, downy both sides.
 Guiana. *Aubl. Gui. 2. tab. 256.*
Plant herbaceous, downy : calyx square.
- serrulata.* Peduncles simple, solitary : calyx ferrate : corol glabrous with the border ferrulate : leaves oblong, pointed at both ends.
 West Indies. *Jacq. hort. schoenb. 3. p. 21. t. 290.*
Shrub climbing : leaves purple-brown underneath.
- cristata.* Peduncles simple, solitary : calyx coloured, ferrate : corol hairy, with the border very entire : leaves ovate.
 Guiana. *Jacq. Amer. t. 119. Jacq. pict. t. 180.*
Stem climbing : leaves ferrate : calyx scarlet.
- coccinea.* Umbel peduncled, axillary : calyx coloured, ferrate : corol glabrous, with the border slightly ferrate : leaves ovate, glabrous.
 Guiana. *Aubl. Gui. 2. p. 632. t. 255.*
Shrub climbing : leaves rigid, slightly toothed : calyx scarlet : corol yellow.
- bivalvis.* Calyx 2-valved, jagged.
 Surinam. *Stem very long, creeping, hairy : leaves very hairy, nerved : berry oval, with a bony 2-celled kernel.*

1184. BRUNSFELSIA. *Calyx 5-toothed, angular : corol with a very long tube : capsule berried, 1-celled, many-seeded, with a very large conceptacle.*

- americana.* Leaves elliptic, pointed, longer than the petioles : tube of the corol erect, with the lobes entire.
 West Indies. *Curt. mag. t. 393. Swartz obs. 90. t. 4. f. 2.*
- undulata.* Leaves lance-ovate, tapering to both ends, with very short petioles : tube of the corol curved, with the lobes undulate.
 Jamaica. *Andrews bot. repof. t. 167.*

1185. SCROPHULARIA. *Calyx 5-cleft : corol somewhat globular, reversed : capsule 2-celled.*

Figwort.

- marilandica* Leaves heart-shaped, ferrate, acute, rounded at the base : stem with obtuse angles.
 Virginia. *Petioles united by a very small beard.*
- * *nodosa.* Leaves heart-shaped, acute, 3-nerved at the base : stem with acute angles.
 Hedg. *Blackw. t. 87. Riv. mon. t. 107. f. 1.*

- **aquatica*. Leaves heart-shaped, petioled, decurrent, obtuse: stem with membranous angles: racemes terminal.
Wet places. *Eng. bot. t. 854. Curt. Lond. fasc. 5. t. 44.*
- auriculata*. Leaves oblong, heart-shaped, hairy underneath, doubly toothed, appendaged at the base: petioles equal: racemes terminal.
Spain: Algeira. *Lob. ic. 533.*
Stem square, not hairy: petioles round, equal, channelled.
- appendiculata*. Leaves ovate, heart-shaped, glabrous, cut-ferrate, appendaged at the base: petioles dilated: racemes terminal, compound.
Tunis. *Jacq. hort. schænb. 3. p. 19. t. 286.*
Petioles dilated towards the base of the leaf.
- **Scorodonia*. Leaves heart-shaped, doubly ferrate, downy underneath: panicles terminal, trichotomous, leafy.
Wet places. *Morif. sect. 6. t. 35. f. 6. Pet. H. Brit. t. 35. f. 11.*
- glabrata*. Leaves oblong-lanceolate, heart-shaped, doubly ferrate, glabrous: panicles racemed, terminal, trichotomous: stem suffruticose.
Canaries. *Jacq. hort. schænb. 2. p. 44. t. 209.*
- betonicifolia*. Leaves heart-shaped, oblong, toothed; the teeth very entire, those at the base deeper.
Portugal. *Barr. ic. 274. bad.*
Leaves wrinkled, slightly pubescent underneath.
- orientalis*. Leaves lanceolate, ferrate, petioled; stem-leaves in threes, those on the branches opposite.
The East. Raceme of 3 or 4 forked peduncles.
- frutescens*. Leaves somewhat fleshy; the upper-ones sessile, toothed, glabrous, recurved at top: panicle racemed; peduncles bifid, many-flowered.
Portugal. *Herm. lugdb. 545. tab. 547.*
Stem acute-angled: leaves lucid, glabrous, small.
- rupestris*. Leaves oblong, petioled, toothed, nearly glabrous: raceme terminal: peduncles 3-flowered.
Tauria. *Willd. sp. pl. 3. p. 274.*
Stem finely pubescent: all the leaves petioled: raceme terminal, of trifid 3-flowered peduncles: bracts obtuse.
- heterophylla*. Leaves somewhat fleshy, ternate, 3-lobed and simple: panicle racemed: stem shrubby.
Crete. *Willd. 3. p. 274.* Leaves all on long petioles.
- altaica*. Leaves heart-shaped, doubly toothed; the lower-teeth tending towards the base: raceme terminal, compound: peduncles 2 and 3-flowered, alternate.
Siberia. *Murr. Comm. Gætt. 1781. p. 35. t. 2.*

- vernalis.* Leaves heart-shaped, pubescent, doubly ferrate: panicles axillary, forked.
 1. Leaves sharply toothed: bractes very entire, lanceolate.
 2. Leaves obtusely toothed: bractes large, ovate, toothed.
 Italy; Austria. *Riv. mon. t. 107. Fl. Dan. t. 411.*
- arguta.* Leaves heart-shaped, glabrous, doubly ferrate: panicles axillary, forked: capsules pointed.
 Madeira; Teneriffe. *Aiton Kew. 2. p. 342.*
- trifoliata.* Leaves glabrous; the lower-ones ternately pinnate and obtuse; upper-ones simple: peduncles 2 or 3-flowered, axillary.
 Africa. *Pluk. alm. t. 313. f. 6. Bocc. mus. 2. t. 60.*
- sambucifolia.* Leaves interruptedly pinnate, heart-shaped, unequal: raceme terminal; peduncles axillary, in pairs, forked.
 Spain; Levant. *Miller fig. t. 231. Moris. sect. 5. t. 8. f. 6.*
- mellifera.* Leaves glabrous; the lower-ones interruptedly pinnate; upper-ones ternate, with oblong leaflets: flowers axillary.
 Barbary. *Desfont atl. 2. p. 53. t. 143.*
- hispida.* Leaves pinnate, villous; the terminal leaflet very large and heart-shaped: raceme terminal: stem bristly.
 Barbary. *Desfont. atl. 2. p. 33. Willd. 3. p. 276.*
Leaves cinereous, doubly crenate, with a few ovate lobes.
- canina.* Leaves pinnate: raceme terminal, naked: peduncles bifid.
 South of Europe. *Hort. Rom. 2. tab. 90.*
Flowers sessile; the first axillary, the rest alternate.
- lucida.* Lower-leaves doubly pinnate, somewhat fleshy, quite glabrous: racemes 2-parted.
 The East. *Bocc. mus. 2. t. 117. Tourn. Cor. 9. It. 1. p. 84. t. 85.*
- variegata.* Stems becoming woody at the base: leaves doubly pinnatifid, pubescent: racemes elongated: pedicels short, rough with barbed hairs.
 Near the Caspian sea. *Willd. sp. pl. 3. p. 278.*
- chinensis.* Leaves ovate-oblong, ferrate, pubescent.
 China. *Mant. p. 250. Racemes* terminal, long, simple.
- meridionalis.* Leaves ovate-oblong, ferrate, glabrous: peduncles 1-flowered.
 New Granada. *Racemes* terminal, solitary.
- coccinea.* Leaves in fours, ovate: flowers in whorls, spiked.
 Vera Cruz. *Leaves* acute, sessile, pale green.
- peregrina.* Leaves heart-shaped, marked with lines, lucid: peduncles axillary, 2-flowered: stem with 6 angles.
 Italy. *Comm. hort. 157. t. 43.*

1186. CELSIA. *Calyx* 5-parted: *corol* wheel-shaped: *filaments* bearded: *capsule* 2-celled.

- orientalis*. Leaves doubly pinnate.
Cappadocia. *Hort. upf. t. 1. Buxb. cent. 1. t. 20.*
Leaves oblong, divided almost to the midrib.
- Arcturus*. Root-leaves lyrate; the upper-ones oblong: pedicels longer than the bractes: divisions of the calyx linear, very entire.
Crete. *Col. ephr. 2. t. 82. Alp. exot. t. 122.*
Floral-leaves sessile, heart-shaped, serrate: *corol* yellow.
- coromandelina*. Root-leaves lyrate; the upper-ones ovate: bractes longer than the pedicels: divisions of the calyx linear-oblong, very entire.
East Indies. *Vahl. symb. 3. p. 79.*
- cretica*. Root-leaves lyrate; upper-ones oblong: flowers sessile, as long as the bractes: divisions of the calyx ovate, serrate.
Crete. *Mill. fig. t. 273. Flowers* sessile.
- betonicifolia*. Leaves ovate-oblong, wrinkled, crenate: bractes lanceolate, shorter than the pedicels.
Algebra. *Desfont. arb. 2. p. 58.*
Leaves often pinnate at the base: *bractes* lanceolate.

1187. HEMIMERIS. *Calyx* 5-parted: *corol* wheel-shaped, reversed, gibbous at the base, cloven: *filaments* glabrous: *capsule* 2-celled.

- sabulosa*. Diandrous: leaves opposite, pinnatifid: stem prostrate.
The Cape. *Linn. suppl. 280. Linn. Transf. vi. p. 96.*
- montana*. Diandrous: leaves ovate, serrate, rather obtuse: stem erect.
The Cape. *Pluk. alm. 9. t. 331. f. 3. Alsine.*
- diffusa*. Didynamous: leaves alternate and opposite, pinnatifid: stem spreading.
The Cape. *Pluk. phyt. 320. f. 5. Veronica.*
- urticifolia*. Didynamous: leaves ovate, toothed, opposite; the floral-ones alternate: stem suffruticose: capsules retuse.
South America. *Curt. mag. t. 417. Celsia.*
Leaves serrate, acute: *flowers* racemed, scarlet.
- coccinea*. Didynamous: leaves in threes, linear-lanceolate, remotely toothed: stem suffruticose: capsules acute.
South America. *Curt. mag. t. 210. Celsia.*
Flowers scarlet, in a terminal raceme.

1188. DIGITALIS. *Calyx* 5-parted: corol campanulate, 5-cleft, swelling: capsule ovate, 2-celled, many-seeded. Foxglove.

purpurea. Divisions of the calyx ovate, acute: corol obtuse, with the upper-lip very entire: leaves pubescent.

Hedges. *Curt. Lond fasc.* 1. t. 48 *Woodv. t.* 24. *Blackw.* 16.

minor. Corol obtuse; the upper-lip slightly 2-lobed: leaves not wrinkled.

Spain. *Leaves* sessile, lanceolate, nearly entire.

Thapsi. Leaves running down the stem.

Spain. *Bocc. mus* 2. p. 107. t. 85.

Leaves lanceolate, downy: upper-lip of the corol entire.

parviflora. Divisions of the calyx lanceolate, obtuse: corol obtuse; with the lowest division villous; leaves linear, very entire, with a woolly margin.

— *Jacq hort. t.* 17. Leaves with a white woolly edge.

lutea. Divisions of the calyx lanceolate: corol acute; with the upper-lip cloven.

France; Italy. *Jacq. hort. t.* 105. *Moris. f.* 5. t. 8. f. 5.

Leaves nearly glabrous: flowers not spotted.

ambigua. Divisions of the calyx lanceolate: upper lip of the corol emarginate: leaves pubescent underneath.

Austria; Germany. *Jacq. ic. t.* 37. *Besl. eyf.* 1. f. 3.

ferruginea. Divisions of the calyx oblong, very obtuse, glabrous: lateral lobes of the lower-lip of the corol acute; middle lobe oblong, hairy, concave: flowers distant: bractes lanceolate, glabrous, as long as the calyx.

Italy. *Hort. Rom* 2. t. 86. *Moris. ser.* 5. t. 8. f. 2.

Leaves sessile, lanceolate, smooth, entire: bractes linear-lanceolate, reflected: *filamina* flexuous, without the rudiment of a fifth.

orientalis. Divisions of the calyx oblong, acute, pubescent: lateral lobes of the lower-lip of the corol very obtuse; the middle-lobe spatulate, ciliate, flat: flowers distant: bractes oblong, pubescent, shorter than the calyx.

Armenia. *Wild. sp. pl.* 3. p. 286.

Leaves glabrous, linear lanceolate, very entire: 2 upper divisions of the corol very short and acute.

lanata. Divisions of the calyx lanceolate, woolly: lateral lobes of the lower-lip of the corol acute; the middle-lobe oblong, glabrous, flat: flowers in crowded spikes: bractes lanceolate, woolly, longer than the calyx.

Hungary; Greece. *Buxb. cent.* 5. p. 25. t. 49.

Stem simple: *leaves* lanceolate, very entire, glabrous.

obscura. Leaves linear-lanceolate, entire, glabrous, united at the base.

Spain. *Jacq. hort.* 1. t. 91. *Bocc. mus.* 2. t. 98.

Stem woody, with a few opposite branches: *bractes* lanceolate: divisions of the *calyx* ovate, rather acute, spreading.

canariensis. Divisions of the *calyx* lanceolate: corol 2-lipped, acute: stem shrubby.

Canaries. *Miller fig.* t. 120. *Comm. hort.* 2. t. 53.

Leaves lanceolate, rough: *flowers* orange and yellow.

Sceptrum. Divisions of the *calyx* subulate: *bractes* linear, longer than the flower: corol obtuse: leaves elliptic, serrate: stem shrubby.

Madeira. *Leaves* sessile, glabrous above, hairy and whitish underneath: divisions of the *calyx* hairy.

cochinchi-nensis. Leaves lanceolate, rough: flowers solitary, axillary: divisions of the *calyx* acute: corol obtuse, emarginate at top.

Cochinchina. *Lour. Cochinch.* 378. *Mart. Mill. dict. n.* 11.

Leaves opposite, entire: *flowers* sessile, pale violet.

sinensis. Leaves ovate, hairy both sides: flowers solitary, axillary: divisions of the *calyx* subulate: corol obtuse, entire at top.

China. *Lour. Cochinch.* 378. *Mart. Mill. dict. n.* 12.

Leaves acute, serrate: *stigma* screw-shaped: *capsule* 2-grooved.

1189. INCARVILLEA. *Calyx* 5-cleft: corol tubular, 5-cleft, unequal, with the orifice swelling: *antheræ* 2 of them with 2 awns, 2 awnless: *siliqua* 2-celled: *seeds* with membranaceous wings.

sinensis. INCARVILLEA.

China. *Juss. gen. ed. Uff.* p. 154. *Willd.* 3. p. 289.

Stem herbaceous, branched, striate: *leaves* in jagged pinnate segments: *flowers* in loose spikes, terminal, purple.

1190. BIGNONIA. *Calyx* 5-cleft, cup-shaped: corol with the orifice campanulate, 5-cleft, swelling beneath: *siliqua* 2-celled: *seeds* with membranaceous wings.

Trumpet-flower.

A. *Leaves simple.*

- Catalpa*. Leaves simple, heart-shaped, in threes: stem erect: flowers diandrous.
 Carolina; Japan. *Catesb. Car.* 1. t. 29. *Kæmpf. amæn.* t. 842.
Tree erect: leaves without tendrils: 2 *stamina* sterile.
- longissima*. Arboreous: leaves simple, oblong, pointed, in threes: flowers diandrous: siliques filiform: seeds woolly.
 West Indies. *Jacq. Amer.* t. 176. f. 78. *Plum. ic.* 57.
- tomentosa*. Leaves simple, heart-shaped, downy: flowers axillary, paniced.
 Japan. *Kæmpf. amæn. tab.* 860.
Tree with opposite leaves: *petioles* and *calyx* downy.
- linearis*. Leaves simple, linear, pointed: flowers terminal, somewhat umbelled: stem erect.
 ——— *Cavan. ic.* 3. p. 35. *tab.* 269.
Leaves glabrous: *flowers* rosy, terminal, nodding, about 4 together: *calyx* 2 or 3-parted: *corol* with the border undulate.
- sempervirens*. Leaves simple, lanceolate: peduncles 1-flowered, axillary: stem twining.
 Virginia. *Catesb. Car.* 1. t. 53. *Pluk. alm.* t. 112. f. 5.
Leaves opposite: *siliques* heart-shaped, simple.
- enuisiliqua*. Leaves simple, lanceolate, glabrous, very entire: panicles terminal.
 South America. *Vahl. eclog.* 2. p. 43.
Stem climbing: *pod*s linear, a foot and half long.
- assinoides*. Leaves simple, elliptic, coriaceous: raceme terminal.
 Brasil. *Vahl. symb.* 2. p. 68. *Lamarck. encycl.* 1. p. 413
Branches alternately compressed above: *calyx* bifid, with oblong glabrous divisions: *corol* large, glabrous.
- biusifolia*. Leaves alternate, simple, ovate-oblong, obtuse, very entire: corymb small, terminal.
 Brasil. *Lamarck. encyclop.* 1. p. 413.
Calyx short, 4-lobed, unequal: *corol* 4-lobed, reflected.
- microphylla*. Leaves simple, obovate, obtuse: peduncle terminal, about 3-flowered.
 Hispaniola. *Plum. spec.* 5. *ic.* 55. f. 2.
Leaves sessile: *flowers* white, with an undulate border.

B. *Leaves 2 on each petiole.*

- linguis*. Leaves in pairs, tendrilled, ovate, pointed: peduncles axillary, 1-flowered.
 Barbadoes. *Plum. Amer.* t. 94. *Pluk. alm.* t. 163. f. 2.

- staminea.* Leaves in pairs, tendrilled, oblong: peduncles axillary, 1-flowered: stamina and style longer than the corol.
Hispaniola. *Plum. spec. 5. ic. 56. f. 2.*
Tendrill long, simple, convolute: style clavate.
- æquinotialis.* Leaves in pairs, tendrilled, ovate-lanceolate: peduncles 2-flowered: filiques linear.
Cayenne. *Hort. Rom. 2. t. 85. Plum. ic. 55. f. 1.*
- alliacea.* Leaves in pairs, elliptic, entire, coriaceous: peduncles 5-flowered, axillary: calyx entire.
Cayenne; Guiana. *Swarthz prodr. 91.* Leaves tendrilled.
- spectabilis.* Leaves in pairs, tendrilled, ovate-oblong, pointed, obtuse: flowers racemed, glabrous: calyx entire.
Santa Cruz. *Vahl. symb. 3. p. 80. Willd. 3. p. 294.*
Tendrill between the leaves simple: corol purple.
- laurifolia.* Leaves in pairs, oblong, glabrous: racemes terminal: branches forked: corol downy and very soft outwardly.
Cayenne. *Vahl. eclog. 2. p. 44.* Tendrills none.
- rigescens.* Leaves in pairs, tendrilled, elliptic, retuse: flowers racemed: peduncles 3-flowered: calyx toothed.
Caraccas. *Jacq. hort. schænb. 2. p. 44. t. 210.*
Calyx 5-toothed: corol with an incurved tube.
- lactiflora.* Leaves in pairs, heart-ovate, glabrous: racemes leafy below: calyx with a simple very entire border.
Santa Cruz. *Vahl. symb. 3. p. 80. t. 66.*
Stem climbing: leaves very entire: tendrill trifid.
- paniculata.* Leaves in pairs, heart-ovate: flowers racemed: calyx with a double border.
America. *Jacq. Amer. t. 116. Plum. ic. 56. f. 1.*
- elongata.* Leaves in pairs, tendrilled, oval, downy underneath: raceme very long, terminal: peduncles forked.
America. *Vahl. eclog. 2. p. 45. t. 16.*
Leaves entire, with yellowish down underneath: calyx truncate, entire, and corol downy.
- corymbifera.* Leaves in pairs, somewhat hearted, ovate, pointed, glabrous both sides: corymbs axillary and terminal.
South America. *Vahl. eclog. 2. p. 45. t. 17.*
Tendrill and calyx truncate, entire: corol pubescent.
- crucigera.* Leaves in pairs, tendrilled, the lower-ones ternate, ovate-heart-shaped, pointed: racemes axillary: stem muricate.
Virginia. *Plum. ic. t. 58. Moris. f. 15. t. 3. f. 16.*
Stem representing a cross when cut through transversely.

grandifolia. Leaves in pairs, tendrilled, oblong, acute at both ends: corymb trifid, terminal: peduncles, petioles and branchlets rough.

Caraccas. *Jacq. hort. schænb.* 3. p. 19. t. 287.

Leaves glabrous: calyx 5-toothed: corol yellow.

capreolata. Leaves in pairs, tendrilled, heart-lanceolate; the lowest-one simple.

North America. *Breyn. ic.* t. 25. *Dubam. arb.* 1. t. 40.

Peduncles 1-flowered, crowded: calyx entire.

pubescens. Leaves in pairs, tendrilled, heart-ovate, pubescent underneath.

Campechy. Flowers yellow.

villosa. Leaves in pairs, tendrilled, ovate, villous and very soft underneath.

America. *Vahl. eclog.* 2. p. 44.

Leaves membranaceous: tendril villous: calyx glabrous, truncate, entire: corol glabrous, purple.

C. Leaves 3 on a common stalk.

echinata. Lower-leaves ternate, upper-ones in pairs: petioles forked, tendrilled: fruit bristly.

America; Guiana. *Jacq. Amer.* t. 176. f. 52. *Aubl. Gui.* 264.

Lower-leaves ternate in pairs, upper-ones ternate and simply paired, ovate, pointed: corol flesh-colour.

heterophylla. Leaves ternate; the upper-ones in pairs, ovate, pointed, glabrous: cymes axillary.

Guiana. *Aubl. Gui.* 2. p. 644. t. 260.

triphylla. Leaves ternate, ovate, pointed, glabrous: stem shrubby, erect.

Vera Cruz. Flowers white.

mollis. Leaves ternate, somewhat hearted, oblong, pubescent both sides: panicle terminal.

Cayenne. *Icon. Plant. Amer. tab.* 10.

Calyx pubescent, 5-toothed: corol slightly pubescent.

D. Leaves in finger-like divisions.

birsuta. Leaves digitate, obovate, entire, emarginate, pubescent underneath: panicle terminal: corol hairy.

East Indies. *Lamarck. encycl.* 1. p. 417.

Calyx truncate, 4-toothed: corol curved, pubescent.

pentaphylla. Leaves digitate, obovate, very entire.

Jamaica; Caribbees. *Marcgr. Bras.* t. 118.

orbiculata. Leaves digitate, oblong, pointed, very entire, glabrous: racemes axillary.

Carthagenæ. *Jacq. Amer.* 184. t. 180. f. 79.

Shrub climbing : *siliques* large, orbicular, compressed.

chrysantha. Leaves digitate, ovate, pointed, very entire, downy : flowers terminal, clustered.

Caraccas. *Jacq. hort. schœnb.* 2. p. 45. t. 111.

Calyx 5-toothed : *peduncles* 1 or 2-flowered : *corol* yellow.

fluviatilis. Leaves digitate, oblong, pointed, very entire, glabrous : *peduncles* many-flowered, terminal.

Guiana. *Aubl. Gui.* 2. p. 655. t. 267.

Calyx 4 or 5-toothed : *corol* white : *siliques* oblong.

Leucoxydon. Leaves digitate, lanceolate, pointed, very entire, glabrous : flowers solitary, terminal.

Jamaica. *Andrews bot. reposit.* t. 43. *Pluk. alm.* t. 200. f. 4.

serratifolia. Leaves in 4 or 5 finger-like divisions, ovate, tapering, serrate, glabrous : *peduncles* terminal, crowded, 1 or 2-flowered.

Trinity Island. *Vahl. eclog.* 2. p. 46.

Calyx 2-lipped : *corol* yellow, 2-lipped.

E. Leaves pinnate.

gnardrilocularis. Leaves pinnate ; leaflets oblong, serrate, acute, glabrous : panicle terminal, dense, very downy : *corol* undulate at the margin.

East Indies. *Roxb. Corom.* 2. p. 24. t. 145.

Tree erect : leaflets 4 or 5 pair : flowers large, rosy, erect : *corol* as long again as the *calyx* : *calyx* 2-parted, downy, with the upper-lip 2-cleft : *siliques* erect, linear, pointed.

radicans. Leaves pinnate ; leaflets ovate, pointed, toothed : corymb terminal : tube of the *corol* thrice as long as the *calyx*.

Carolina. *Curt. mag.* t. 485. *Catesb. Car.* 1. t. 65.

Shrub climbing, glabrous : flowers deep scarlet.

grandiflora. Leaves pinnate ; leaflets ovate, pointed, toothed : panicle terminal : tube of the *corol* as long as the *calyx*.

China ; Japan. *Banks. ic. Kämpf.* t. 21.

Shrub climbing : *calyx* deeply 5-parted.

pandorana. Leaves pinnate ; leaflets lanceolate, toothed : corymbs axillary and terminal : tube of the *corol* 4 times as long as the *calyx* ; the border undulate.

Norfolk Island. *Andrews. reposit. tab.* 86.

Corol white, red within, with acute divisions.

stans. Leaves pinnate ; leaflets oblong-lanceolate, serrate : raceme simple, terminal : stem erect.

America. *Plum. ic.* 54. Flowers yellow.

africana. Leaves pinnate; leaflets obovate, toothed, wrinkled, generally 5: flowers racemed.

Senegal. *Lamarck. encyclop.* 1. p. 418.

Tree with shining leaves: flowers 6 or 7 in a raceme.

bijuga. Leaves abruptly pinnate, in two pairs; leaflets elliptic, very entire.

Madagascar. *Vahl. symb.* 2. p. 68. *Willd.* 3. p. 303.

racemosa. Leaves pinnate; leaflets ovate, acute, very entire: common petiole margined: flowers racemed.

Madagascar. *Lamarck. encycl.* 1. p. 419.

Calyx short, nearly truncate: corol with a very small border.

compressa. Leaves pinnate; leaflets ovate-oblong, obtuse, very entire, coriaceous: common petiole margined: ultimate branchlets compressed.

East Indies. *Lamarck. encycl.* 1. p. 419.

Ultimate branches knotty and compressed, with simple leaves.

spathacea. Leaves pinnate with an odd one; leaflets ovate, hairy: calyx spathe-like: corol salver-shaped.

Malabar. *Roxb. Corom.* 2. t. 144. *Rheed. Mal.* 6. t. 29.

Tree with entire leaflets: calyx 1-leaved, opening at one side like a spathe: corol white, with a plaited border.

chelonoides. Leaves pinnate with an odd one; leaflets ovate, very entire, pubescent: corol bearded, with a fifth steril filament inserted in the tube.

East Indies. *Rheed. Mal.* 6. p. 47. t. 26.

Tree with the leaves pubescent both sides: panicle terminal: flowers red and white, with the throat hairy.

F. Leaves decompound.

variabilis. Lower-leaves twice ternate; upper-ones conjugately ternate and tendrilled: raceme terminal.

Caraccas. *Jacq. hort. schænb.* 2. p. 45. t. 212.

Shrub climbing: branches square: leaflets ovate, pointed, entire, glabrous: flowers yellowish-green.

alba. Leaves decompoundly pinnate; petioles knotty: corymbs axillary.

Guiana. *Aubl. Gui.* 2. p. 653. t. 266.

Flowers white, on a many-flowered forked axillary peduncle.

peruviana. Leaves decompound; leaflets 5; the joints tendrilled.

Peru, *Pluk. alm.* 108. t. 162. f. 4? Clematis.

G. Leaves doubly pinnate.

indica. Leaves doubly pinnate; leaflets roundish-ovate, hearted, pointed: flowers pentandrous: calyx tubular: corol 5-cleft.

East Indies. *Rheed. Mal.* 1. p. 77. tab. 43.

Calyx a crescent-shaped coloured thick woolly spathe.

longifolia. Leaves doubly pinnate; leaflets oblong-lanceolate, somewhat hearted, pointed: calyx hemispherical: corol 4-cleft.

East Indies. *Rheed. Mal.* 1. p. 79. t. 44.

Border of the corol 4-cleft; the upper segment notched.

procera. Leaves doubly pinnate; leaflets oblong, obtuse: panicle terminal: peduncles bracted: filiques oblong, obtuse.

Guiana. *Aubl. Gui.* 2. p. 650. t. 265. B. Copaiá.

Tree 80 feet high: panicle vast: flowers blue.

cærulea. Leaves doubly pinnate; leaflets lanceolate, acute: panicle terminal: peduncles without bractes: filiques oblong, emarginate.

Carolina. *Catesb. Carol.* 1. tab. 42.

brasiliána. Leaves doubly pinnate; leaflets oblong, acute: panicle axillary: filiques with a sinuate margin.

Brasil. *Lamarck. encycl.* 1. p. 420.

1191. CITHAREXYLUM. *Calyx* 5-toothed, campanulate: corol funnel-form, wheel-shaped, the divisions villous above and equal: drupe 2-seeded: nuts 2-celled. *Fiddle-wood.*

cinereum. Branches round: leaves oblong, pointed, very entire: racemes pendulous: calyx toothed.

South America. *Jacq. Amer.* t. 118. *Plum. ic.* 157. f. 1.

Flowers small, numerous, white, odorous.

caudatum. Branches round: leaves elliptic, emarginate, obtuse, entire: racemes erect: calyx slightly toothed.

Jamaica. *Brown Jam.* t. 28. f. 2. *Sloane Jam.* t. 206. f. 3, 4.

villosum. Branches square: leaves obovate, slightly toothed at top, pubescent underneath: racemes nodding.

St. Domingo. *Jacq. ic. rar.* 1. tab. 118.

Calyx obsoletely toothed, nearly truncate: corol white.

subserratum. Branches square: leaves oblong, rigid, lucid, slightly serrate at top: racemes nearly erect: calyx toothed.

Hispaniola. *Swartz fl. ind. occ.* 2. p. 1043. *prodr.* 91.

quadrangulare. Branches square: leaves ovate, pointed, very entire: racemes nodding.

Martinico. *Jacq. hort.* 1. t. 22. Berries yellow.

melanocardium. Branches square: flowers paniced, tetrandrous: leaves somewhat wrinkled, roughish and veined beneath.

Jamaica. *Gærtn. sem.* 1. p. 270. t. 50. C. paniculatum.

1192. HALLERIA. *Calyx* 3 or 4-leaved: *corol* 4-cleft: *berry* superior, 2-celled, many-seeded.
Fly Honey-suckle.

lucida. Leaves ovate, pointed, serrate: *corol* 2-lipped: *calyx* 3-leaved: *stamina* exerted.

The Cape. *Burm. afr.* 244. t. 89. f. 2. Lonicera.

Stem woody: *leaves* evergreen: *flowers* solitary, red.

elliptica. Leaves oblong, acute, toothed, wedge-form and very entire at the base: *corol* equal: *calyx* 4-leaved: *stamina* included.

The Cape. *Burm. afr.* 243. t. 89. f. 1. Lonicera.

1193. CRESCENTIA. *Calyx* 2-parted, equal: *corol* gibbous: *berry* pedicelled, 1-celled, many-seeded: *seeds* 2-celled, imbedded in pulp.

Calabash-tree.

Cajete. Leaves wedge-lanceolate, crowded.

Leeward Islands. *Jacq. Amer.* t. 111. *Plum. ic.* 109.

Tree with simple, long, horizontal branches: *leaves* disposed in tufts, entire, shining: *flowers* large, solitary.

cucurbitina. Leaves ovate, distinct, somewhat coriaceous: *fruit* ovate, with a point.

West Indies. *Pluk. alm.* t. 117. f. 2. *Plum. ic.* 109.

Flowers nodding: *leaves* not in tufts: *fruit* pointed.

1194. TANÆCIUM. *Calyx* cylindrical, truncate: *corol* tubular, nearly equal, 5-cleft: *rudiment* of a fifth filament: *berry* very large, covered with a bark.

parasiticum Leaves ovate, coriaceous: *stem* shrubby, climbing, rooting.

Jamaica. *Jacq. hort. schænb.* 1. p. 61. t. 115.

Jaroba. Lower-leaves ternate; upper-ones in pairs: *tendrils* terminal, between the petioles.

Jamaica; Brasil. *Swartz prodr.* 92.

pinnatum. Leaves pinnate: *flowers* pentandrous: *stem* arboreous.

Mozambique. *Jacq. collect.* 3. p. 203. t. 18. *Crescentia*.

Tree vast: *leaves* pinnate with an odd one; *leaflets* oblong, serrate: *fruit* the size of a man's head.

1195. GMELINA. *Calyx* slightly 4-toothed: *corol* 4-cleft, campanulate: *antheræ* 2 of them 2-parted, the other 2 simple: *drupe* with a 2-celled nut.

asiatica. GMELINA.

2. Plant much smaller. *Roxb. Corom. 2. t. 162.* *G. parvifolia.*
Tree with round stiff branches: *leaves* opposite, ovate, downy underneath, often tricuspidate: *spines* axillary, opposite, horizontal: *flowers* racemed, terminal.

1196. PETREA. *Calyx* 5-parted, very large, coloured: *corol* wheel-shaped: *capsule* 2-celled, in the bottom of the calyx: *seeds* solitary.

vulubilis. PETREA.

- America. Cart. mag. t. 628. Jacq. Amer. 180. t. 114.*
Shrub climbing: *leaves* elliptic, pointed, entire; the lower-ones in threes, upper-ones opposite: *flower*, racemed, blue.

1197. PREMNA. *Calyx* 2-lobed: *corol* 4-cleft: *seeds* solitary.

integrifolia. Leaves elliptic, very entire, glabrous.

East Indies. Burn. ind. t. 41. f. 1. Rumph. amb. 3. t. 134.

tormentosa. Leaves ovate, pointed, very entire, downy underneath.

East Indies. Lamarck. encycl. 1. p. 54. Willd. 3. p. 314.

Leaves opposite, petioled: *cyme* many-flowered, terminal: *bractes* very minute, subulate at the ramifications of the peduncles: *calyx* of the flower 2-lobed; of the fruit 2-lipped, one lip 3-toothed, the other 2-toothed.

serratifolia. Leaves serrate.

East Indies. Leaves opposite, obtuse: *cymes* terminal.

1198. LANTANA. *Calyx* obsoletely 4-toothed: *corol* with the border 4-cleft, and the orifice pervious: *stigma* bent down like a hook: *drupe* with a 2-celled smooth nut.

mista. Leaves opposite, ovate, acute, hairy: stem prickly beneath: flowers in roundish heads: *bractes* lanceolate.

America. Dill. elth. t. 56. f. 64. Comm. hort. 1. t. 78.

trifolia. Leaves in threes or fours, elliptic, wrinkled above, villous underneath: stem unarmed: spikes oblong, imbricate.

America. Sloane Jam. 2. t. 195. f. 3. Plum. ic. 70.

viburnoides Leaves opposite, ovate-lanceolate: stem unarmed: flowers in spiked heads: involucre lanceolate.

Arabia Felix. Vahl. symb. 1. p. 45. Willd. 3. p. 316.

Branches hairy, rough: *leaves* acutely toothed, very rough above, villous underneath: *corol* pubescent.

- annua.* Leaves opposite: stem unarmed: spikes oblong.
America. Stem bristly, striate: leaves hearted, rarely in threes: spikes hemispherical: corol flesh-colour with a yellow orifice.
- striata.* Leaves opposite, oblong-lanceolate, acute: stem unarmed: heads roundish: bractes ovate-lanceolate, squarrous.
Jamaica, Sloane Jam. 2. t. 195 f. 4. Periclymenum.
Leaves rough with short rigid hairs above, white villous underneath: flowers pale purple: berries roundish, red.
- Radula.* Leaves opposite, ovate, acute, ferrate, wrinkled, rough, hairy underneath: stem rough, mostly unarmed: heads oblong: bractes ovate, acute.
St. Vincent; Dominica. Swartz prodr. 92. Ind. occ. 2. p. 1057.
Bractes ovate, pointed, lax, hairy: flowers purple.
- Camara.* Leaves opposite: stem unarmed, branched: flowers in umbelled heads; heads leafless.
America. Dill. elth. t. 56. f. 65. Plum. ic. 71. f. 1.
Leaves decussate, ovate, pointed, serrate, hairy.
- involucrata* Leaves opposite and in threes, rhomb-ovate, obtuse, wrinkled, downy: stem unarmed: heads squarrous: bractes ovate.
America. Pluk. alm. t. 114. f. 5. Viburnum.
Bractes large, sessile, heart-ovate, longitudinally nerved.
- recta.* Leaves opposite, oval, wrinkled: stem unarmed: heads squarrous: bractes lanceolate: peduncles longer than the leaves.
West Indies. Aiton Kew. 2. p. 351. Willd. 3. p. 319.
- odorata.* Leaves opposite and in threes, elliptic, wrinkled: stem unarmed: heads squarrous: peduncles shorter than the leaves.
West Indies. Plum. ic. 71. f. 2. Camara.
Leaves much wrinkled, somewhat downy: bractes villous.
- lavandulacea.* Leaves opposite, lanceolate, obtuse, rough above: heads cylindrical: bractes imbricate, roundish, acute.
— Willd. 3. p. 319. Stem rough: leaves hairy underneath: peduncles shorter than the leaves: bractes villous.
- alvifolia.* Leaves opposite, ovate, rough above, hoary underneath: heads conic: bractes squarrous, ovate, acute, nerved.
The Cape. Jacq. hort. schænb. 3. p. 18. t. 285.
Peduncles about as long as the leaves: bractes pubescent: corol red: fruit violet.
- melissæfolia.* Leaves opposite, ovate-oblong, villous, soft: stem prickly: spikes hemispherical: bractes half as long as the tube.

East Indies. *Dill. elth.* 66. t. 57. f. 66. Camara.

Leaves sometimes in threes, wrinkled above, downy underneath: flowers axillary, yellow: bractes oblong, downy.

scabrida. Leaves opposite, ovate-elliptic, rough: stem prickly: spikes hemispherical: bractes lanceolate, acute, half as long as the tube.

East Indies. *Aiton Kew.* 2. p. 352. *Wild.* 3. p. 320.

aculeata. Leaves opposite, ovate, some of them hearted, rather soft underneath: stem prickly: heads hemispherical: bractes linear, wedge-form.

America. *Curt. mag.* t. 96. *Pluk. alm.* t. 233. f. 5.

Stem brittle, with a few short reflected spines at the angles: flowers yellow, growing scarlet.

1199. SPIELMANNIA. *Calyx* 5-cleft, border of the corol 5-cleft; the orifice closed with hairs: stigma hooked: drupe tubercled, with a 2-celled nut.

africana. SPIELMANNIA.

The Cape. *Comm. rar.* 6. t. 6. Jasminum.

Calyx permanent, with subulate divisions: antheræ 4, not didynamous: drupe globular, somewhat pointed, divided by a groove: nut divided into 2 equal hemispheres.

1200. CORNUTIA. *Calyx* 5-toothed: stamina longer than the corol: style very long: berry 1-seeded.

pyramidata Panicle terminal, naked, elongated.

Caribbees. *Plum. gen.* 32. ic. 106. f. 1.

Branches with 4 acute angles: leaves ovate, entire.

punctata. Corymbs axillary, trichotomous.

America. *Jacq. hort.* 1. t. 114. *Hosta cœrulea.*

Shrub with opposite ovate pointed slightly ferrate leaves: flowers blue, with minute white dots.

1201. LOESELIA. *Calyx* 4-cleft: corol with all the divisions leaning one way: stamina opposite the petal: capsule 3-celled.

ciliata:

LOESELIA.

Vera Cruz. *Gertn. sem.* 1. p. 295. t. 62. f. 3.

Leaves opposite, ovate, acute, serrate: raceme axillary: divisions of the corol oblong, ciliate.

1202. CAPRARIA. *Calyx* 5-parted: *corol* campanulate, 5-cleft, acute: *capsule* 2-valved, 2-celled, many-seeded. *Goat-weed.*

biflora. Leaves alternate: flowers in pairs.
Peru. *Jacq. Amer. t. 115. Comm. hort. 1. t. 40.*
Shrub with oblong leaves serrate above, sessile.

lucida. Leaves opposite, oblong, acute, sharply serrate, smooth: petioles winged: peduncles 3-flowered.
The Cape. *Aiton Kew 2. p. 353. Willd. 3. p. 324.*
Plant glabrous: *corol* salver-shaped, with ovate obtuse equal divisions: *germ* roundish.

lanceolata. Leaves opposite, linear-lanceolate, very entire: racemes compound, terminal.
The Cape. *Leaves* narrow, acute, stiff.

semiserrata. Leaves lanceolate, serrate at top: peduncles 1 to 4-flowered.
America. *Vahl. eclog. 2. p. 17. Willd. 3. p. 324.*
Stem herbaceous: *leaves* alternate, glabrous.

undulata. Leaves opposite, ovate-oblong, very entire, undulate; the upper-ones somewhat heart-shaped and whorled: racemes spike-form.
The Cape. *Raceme* simple, terminal.

humilis. Pubescent: leaves opposite or in threes, ovate, serrate, petioled: peduncles axillary, shorter than the petioles.
East Indies. *Aiton Kew. 2. p. 354. Willd. 3. p. 325.*

1203. LINDERNIA. *Calyx* 5-parted: *corol* ringent, with the upper-lip very short: 2 lower *stamina* with a terminal tooth and somewhat lateral anthera: *capsule* 1-celled.

Pyxidaria. Leaves oblong-ovate, very entire, 3-nerved, sessile: peduncles axillary, 1-flowered: stem procumbent.
Virginia; Europe. *Allion. Stirp. aliq. 178. t. 5.*
Flowers axillary, solitary, pale blue.

dianthera. Leaves roundish-ovate, serrate, veined, petioled: peduncles axillary, 1-flowered: stem creeping.
Hispaniola. *Savartx prodr. 92. Fl. ind. occ. 2 p. 1058.*
Leaves thickish: *peduncles* twice as long as the leaves.

aponica. Leaves obovate, serrate: raceme terminal.
Japan. *Thunb. Jap. 253. Willd. 3. p. 326.*
Stem herbaceous, weak: *root-leaves* petioled, *stem-leaves* sessile; all obtuse, villous: *raceme* leafless.

1204. MANULEA. *Calyx* 5-parted: *corol* with a 5-parted subulate border; the 4 upper-divisions more united: *capsule* 2-celled, many-seeded.

Cheiranthus. Leaves naked: stems almost leafless: pedicels alternate, 1-flowered.

The Cape. *Comm. hort.* 2. t. 42. *Cheiranthus*.

Leaves alternate, obovate-oblong, sessile, ferrate: *racemes* terminal, erect: *bractes* linear: *flowers* deep yellow.

corymbosa. Leaves oblong, toothed, glabrous: corymb flat at top.

The Cape. *Stem* naked.

altissima. Leaves lanceolate, slightly toothed, villous: spike ovate.

The Cape. *Leaves* all radical.

pinnatifida. Leaves ovate, cut-pinnatifid; the segments toothed.

The Cape. *Linn. suppl.* 286.

Plantaginis. Leaves ovate, slightly toothed and entire, glabrous: heads ovate: branches diffuse.

The Cape. *Linn. suppl.* 286.

capitata. Leaves ovate, ferrate, villous: heads globular: branches diffuse.

The Cape. *Linn. suppl.* 286.

antirrhinoides. Leaves ovate, toothed, glabrous: flowers alternate.

The Cape. *Linn. suppl.* 286.

thyrsifolia. Leaves obovate, downy, toothed: corymb terminal, elongated, compound.

The Cape. *Linn. suppl.* 286.

argentea. Leaves obovate, wedge-form, ferrate, with silvery dots: flowers axillary.

The Cape. *Linn. suppl.* 286.

tomentosa. Leaves downy: stems leafy: peduncles many-flowered.

The Cape. *Curt. mag.* t. 322. *Fact. ic.* 3. t. 408.

Stems ascending, whitish-downy: leaves opposite, obovate, downy both sides: *thyrs* terminal: *flowers* deep yellow.

rubra. Leaves lanceolate, villous: flowers racemed, remote.

The Cape. *Linn. suppl.* 286. *Corol* obtuse.

capillaris. Stem-leaves obovate, glabrous, toothed; those on the branches linear: spikes ovate.

The Cape. *Linn. suppl.* 285.

cuneifolia. Leaves elliptic-ovate, glabrous, toothed: spikes oblong.

The Cape. *Linn. suppl.* 285.

cærulea. Leaves linear, opposite, downy, toothed: flowers racemed.

The Cape. *Linn. suppl.* 285.

- heterophylla*. Leaves linear, scattered, villous, entire or toothed.
The Cape. *Linn. suppl.* 285.
- integrifolia*. Leaves ovate, scattered, glabrous, entire.
The Cape. *Linn. suppl.* 285.
- microphylla*. Leaves ovate, fascicled, glabrous, entire.
The Cape. *Linn. suppl.* 285.

1205. **HEBENSTREITIA.** *Calyx* with a double notch at the end, opening longitudinally from beneath: *corol* with 1. ascending 4-cleft lip: *capsule* 2-seeded: *stamina* inserted into the margin of the border of the corol.

- dentata*. Leaves linear; toothed: spikes smooth.
The Cape. *Curt. mag. t.* 483. *Burm. afr. t.* 41. *f.* 2.
Leaves scattered, roughish: *corol* white, with a red spot.
- ciliata*. Leaves linear, toothed: calyx 3-valved, ciliate.
The Cape. *Burm. afr. t.* 109. *t.* 41. *f.* 1. *Rapunculus*.
- integrifolia*. Leaves linear, very entire.
The Cape. *Andrews bot. reposit. t.* 252. *H. aurea*.
Leaves in threes and scattered: *flowers* golden.
- erinoïdes*. Leaves oblong, serrate, hairy: bractes entire, bristly.
The Cape. *Linn. suppl.* 286.
- fruticosa*. Leaves lanceolate, toothed, glabrous: bractes entire.
The Cape. *Linn. suppl.* 287.
- cordata*. Leaves somewhat fleshy, heart-shaped, sessile.
The Cape. *Leaves* opposite or alternate, obtuse, gibbous underneath: *corol* white, with a flesh-colour throat.

1206. **ERINUS.** *Calyx* 5-leaved: *corol* with a 5-cleft border, equal; the lobes emarginate; upper-lip very short and reflected: *capsule* 2-celled.

- alpinus*. Flowers racemed: leaves spatulate.
Alps. *Curt. mag. t.* 310. *Barr. ic.* 1192.
Root-leaves tufted, pubescent, with a few serratures at top: *stems* simple, with alternate leaves: *raceme* terminal.
- maritimus*. Leaves lanceolate, very entire, glabrous: lobes of the corol half cloven.
The Cape. *Linn. suppl.* 287.
- africanus*. Flowers lateral, sessile: leaves lanceolate, slightly toothed.
The Cape. *Burm. afr. t.* 138. *t.* 50. *f.* 1. *Lychnidea*.
Stem branched: *leaves* sessile, obtuse: *flowers* purple.

- Lychnidea*. Leaves lanceolate, serrate: lobes of the corol half cloven.
The Cape. Leaves sessile, linear, pubescent: spike terminal,
oblong: corol yellow, very odorous.
- fragrans*. Leaves lance-oblong, toothed: divisions of the corol very
entire.
The Cape. *Burm. afr.* 13. t. 49. f. 4. *Lychnidea*.
Leaves slightly petioled, villous: spike terminal.
- peruvianus*. Leaves oblong, toothed: lobes of the corol emarginate.
Peru. *Feuill. Peru.* 3. p. 25. t. 3. *Lychnidea*.
- tristis*. Leaves oblong, cut, toothed: lobes of the corol emar-
ginate.
The Cape. Flowers dull, fragrant.

1207. BUCHNERA. Calyx obsoletely 5-toothed:
corol with a 5-cleft border, equal; the lobes
heart-shaped: capsule 2-celled.

- americana*. Leaves toothed, lanceolate, 3-nerved.
Virginia; Canada. Spike with remote flowers.
- elongata*. Leaves somewhat linear-lanceolate, entire: calyx a little
hairy, longer than the capsule.
Jamaica; Guiana. *Aubl. Gui.* 2. t. 253.
- cernua*. Leaves wedge-shaped, 5-toothed, glabrous: flowers spik-
ed; stem shrubby.
The Cape. *Houtt. fysl.* 8. p. 129. t. 58. f. 2.
Leaves sessile: spikes terminal, solitary: flowers sessile, white.
- cuneifolia*. Leaves wedge-form, glabrous, 7-toothed at top.
The Cape. *Andrews bot. repos.* t. 84? Peduncles very long.
- cordifolia*. Stem square: leaves opposite, heart-shaped, 3-nerved, ser-
rate: racemes terminal, somewhat spiked.
East Indies. Probably a species of *Verbena*.
- grandiflora*. Rough; leaves opposite, sessile, oblong, entire: peduncles
axillary, 1-flowered, 2-leaved: calyx funnel-form.
South America. Stem erect, simple: calyx cylindrical.
- æthiopica*. Leaves 3-toothed: flowers peduncled: stem somewhat
shrubby.
The Cape. Leaves opposite, lanceolate: corol yellow.
- viscosa*. Leaves linear-lanceolate, laxly toothed, a little glutinous:
flowers peduncled: stem shrubby.
The Cape. *Curt. mag.* t. 217. Leaves opposite, acute.
- capensis*. Leaves linear, toothed, alternate: calyx pubescent.
The Cape. *Burm. afr.* 191. t. 50. f. 2. *Lychnidea*.
Plant branched above: flowers in terminal spikes.
- humifusa*. Leaves obovate, rough with minute whitish scales: stem
prostrate.

Arabia Felix. Vahl. symb. 3. p. 81.

Stems filiform, prostrate, rough: *peduncles* axillary, solitary, very short, 1-flowered: *capsule* oblong, compressed.

asiatica. Very rough: leaves linear, very entire, scaly: lobes of the corol oblong.

Ceylon; China. *Pluk alm 142. t 177. f. 6.* Euphrasia.

Calyx axillary, solitary, nearly sessile, striate.

euphrasio-ides. Leaves linear, very entire, rough with hairs: lobes of the corol linear, obtuse.

East Indies. *Vahl. symb 3. p. 81. Willd. 3. p. 338.*

Stem square, branched: *leaves* appressed to the branches: *calyx* sessile, axillary: tube of the corol hairy.

gesnerioides. Leaves oblong, ciliate, appressed, scale-like: tube of the corol incurved.

East Indies. *Willd. sp. pl. 3. p. 338. n. 13.*

Stem square, clothed with remote minute appressed scale-like leaves: *flowers* sessile, with a glabrous incurved tube.

fetida. Leaves oblong, irregularly cut & toothed: flowers umbelled. The Cape. *Andrews bot. reposit. tab. 80.*

Stem branched: *leaves* petioled, wrinkled, fetid: *flowers* whitish, in terminal umbels.

pinnatifida. Leaves pinnatifid, glabrous.

The Cape. *Linn. suppl. 288.*

1208. BROWALLIA. *Calyx* 5-toothed: corol with the border 5-cleft, equal, spreading, with the centre closed: 2 of the *antheræ* larger: *capsule* 1-celled.

demissa. Peduncles 1-flowered.

South America. *Sabb. Hort. Rom. 2. t. 100.*

Leaves oval, entire, pointed: *flowers* pale blue.

elata. Peduncles 1-flowered and many-flowered.

Peru. *Curt. mag. t. 34.* Corol violet-blue.

alienata. Upper-leaves opposite: 2 of the *stamina* as long as the corol. *Müller fig. 68.* An uncertain species.

1209. LINNÆA. *Calyx* double; that of the fruit 2-leaved, inferior; of the flower 5-parted, superior: corol campanulate: berry dry, 3-celled.

borealis. LINNÆA.

Woods. *Eng. bot. t. 433. Blackw. t. 597. Fl. Lapp. t. 12. f. 4.*

Stems filiform, creeping, ferruginous with a few white hairs: *branches* alternate, erect: *leaves* opposite, roundish-ovate, crenate on the upper-part, with a few hairs above: *flowers* in pairs, nodding, variegated with white and red.

1210. SIBTHORPIA. *Calyx* 5-parted: *corol* 5-parted, irregular: *stamina* approaching each other in pairs: *capsule* compressed, inversely heart-shaped, 2-celled, with transverse partitions.

* *europæa*. SIBTHORPIA.

Wet shades. *Eng. bot. t. 649. Pet. H. Brit. t. 6. f. 11.*

Stems prostrate, filiform, hairy: *leaves* kidney-form, somewhat peltate, hairy: *flowers* axillary, solitary.

1211. LIMOSELIA. *Calyx* 5-cleft: *corol* 5-cleft, nearly equal: *stamina* approaching each other in pairs: *capsule* ovate, 1-celled, 2-valved, many-seeded. *Mud-wort.*

* *aquatica*. Leaves lance-spatulate: scapes shorter than the leaves.

Muddy places. *Eng. bot. t. 357. Moris. sect. 15. t. 2. f. 1.*

diandra. Leaves linear-spatulate: scapes as long as the leaves.

The Cape. *Flowers* diandrous.

1212. PHAYLOPSIS. *Calyx* 5-cleft; the upper division larger: *corol* ringent, the upper-lip very small and cloven: *capsule* 1-celled, 4-seeded, filique-shaped.

parviflora. PHAYLOPSIS.

East Indies. *Willd. sp. pl. 3. p. 342.*

Stem erect, square, hairy: *branches* opposite: *leaves* opposite, ovate, pointed, hairy, obsoletely toothed: *peduncles* 3-flowered, axillary: upper segment of the *calyx* oblong-lanceolate; the rest setaceous.

1213. VANDELIA. *Calyx* mostly 4-cleft: *corol* ringent: 2 outer *filaments* from the disk of the corol: *antheræ* connected by pairs: *capsule* 1-celled, many-seeded.

diffusa. Leaves roundish, nearly sessile, crenate.

Montferrat. *Vabl. eclog. 2. p. 47.*

Stem herbaceous, square: *flowers* axillary, solitary.

pratensis. Leaves petioled, oblong, acute, crenate.

South America. *Aubl. Gui. 2. p. 642. t. 259.*

1214. RUSSELIA. *Calyx* 5-leaved: *corol* 2-lipped, elongated: *stigma* globular: *capsule* pointed, 1-celled, 2-valved, many-seeded.

sarmentosa, RUSSELIA.

Havannah. *Jacq. Amer.* 178. t. 113. *piñ.* t. 171.

Shrub climbing, with wand-like square branches: *leaves* opposite, ovate, acute, toothed, hairy above, glabrous underneath: *peduncles* axillary, 3 flowered: *flowers* red.

1215. CONOBEA. *Calyx* 5-cleft: *corol* 2-lipped: *capsule* 1-celled, 4-valved, many-seeded.

aquatica, CONOBEA, or CONOPEA.

Guiana. *Aubl. Gui.* 2. p. 639. t. 257.

Plant herbaceous, creeping: *stem* square, knotty: *leaves* opposite, kidney-form, acute, toothed, clasping the stem: *peduncles* axillary, 1-flowered, longer than the leaves: *flowers* blue.

1216. STEMODIA. *Calyx* 5-parted: *corol* 2-lipped: *stamina* 4; each filament cloven and bearing 2 antheræ: *capsule* 2-celled.

viscosa. Leaves opposite, clasping the stem: flowers axillary, solitary, peduncled.

East Indies. *Roxb. Corom.* 2. p. 33. t. 163.

Stem herbaceous, hairy, square, viscid: *leaves* oblong, serrate, hairy, viscid: *flowers* small, violet.

maritima. Leaves opposite, half embracing the stem: flowers axillary, solitary, sessile.

Jamaica. *Brown Jam.* t. 22. f. 1. *Sloane Jam.* t. 110. f. 2.

durantifolia. Leaves in threes and united: flowers about 3 together and nearly sessile.

Jamaica. *Sloane Jam.* 1. p. 196. t. 124. f. 2. *Veronica*.

ruderalis. Leaves oblong, petioled: flowers axillary, opposite.

East Indies. *Gærtn. sem.* 1. p. 243. t. 32. f. 5.

Stem herbaceous, pubescent: *calyx* pubescent.

camphorata. Leaves ovate, petioled: flowers racemed.

Ceylon. *Vahl. symb.* 2. p. 69. *Willd.* 3. p. 345.

Leaves acute, unequally serrate: *raceme* terminal.

aquatica. Leaves in threes; those under water doubly pinnate and capillary; those above water undivided, lanceolate, sessile: flowers in axillary spikes.

East Indies. *Willd. sp. pl.* 3. p. 346. n. 5.

Stem round: *antheræ* not double: *stigma* dilated, concave.

1217. OBOLARIA. *Calyx* 2-cleft: *corol* 4-cleft, campanulate: *capsule* 1-celled, 2-valved, many-seeded: *stamina* from the divisions of the corol.

virginica. OBOLARIA.

Virginia. *Morif. fœt.* 12. t. 16. f. 23. *Pluk. alm.* t. 209. f. 6.

Leaves opposite, the upper ones purple on the outside: *flowers* in terminal spikes, clustered at top, pale red.

1218. ÆGINETIA. *Calyx* 1-leaved, spathaceous: *corol* campanulate, 2-lipped: *capsule* many-celled.

indica. ÆGINETIA.

Malabar. *Roxb. Corom.* 1. t. 91. *Rheed. Mal.* 11. t. 47.

Scapes numerous, leafless: *spathe* yellowish.

1219. OROBANCHE. *Calyx* of 2 lobed lateral divisions: *corol* ringent: *capsule* 1-celled, 2-valved, many-seeded: a gland at the base of the germ beneath. *Broom-rape.*

A. *Corol* 4-cleft.

* *major.* Stem simple: corol 4-cleft, inflated: *stamina* glabrous on the lower part: *stigma* 2-lobed: *style* pubescent.

Woods. E. bot. t. 421. *Curt. Lond.* f. 4. t. 44. *Hort. Rom.* 3. t. 11.

fœtida. Stem simple: corol 4-cleft, inflated, sharply toothed: *stamina* pubescent on the lower part: *stigma* 2-lobed: *style* pubescent above.

Barbary. Desfont. atl. 2. p. 59. t. 144.

caryophyllacea. Stem simple: corol inflated, fringed and curled; the lower lip with obtuse equal divisions: *stamina* hairy at the base on the inside.

Apennines. Transact. Linn. Soc. iv. p. 169.

cærulescens. Stem simple: corol 4-cleft: bractes white-villous, as long as the flower: *stamina* and *style* glabrous.

Siberia. Willd. sp. pl. 3. p. 349. n. 4.

Bractes ovate, with long points: *corol* not inflated.

* *elatior.* Stem simple: corol 4-cleft: *stamina* hairy on the lower part: *stigma* inversely heart-shaped: *style* glabrous.

Fields. Eng. bot. t. 568. *Linn. Transf.* iv. p. 178. t. 17.

purpurea. Stem simple and branched: corol 4-cleft: *stamina* spurred.

The Cape. *Linn. suppl.* 288. Purplish-red,

- *minor*. Stem simple: corol 4-cleft: stamina hairy on the lower-part: stigma retuse: style glabrous.
Fields. *Engl. bot. t. 422. Transf. Linn. soc. iv. p. 179.*
- alba*. Stem simple: corol 4-cleft: stamina glabrous: style rough with glandular hairs above: calyx of 2 undivided segments.
Siberia. *Willd. sp. pl. 3. p. 350. n. 8.* Stigma 2-lobed.
- gracilis*. Stem simple: corol inflated; the lower-lip very short, with inversely heart-shaped, unequal, fringed and curled divisions: stamina and style hairy, exerted.
Genoa. *Smith Transf. Linn. soc. iv. p. 172.*
- americana*. Stem simple: leaves imbricate: corol recurved: stamina exerted.
Carolina. *Stems entirely covered with imbricate leaves: calyx ventricose, with a very entire margin: plant villous.*
- virginiana*. Stem branched: corol 4-cleft.
Virginia. *Moris. 3. sect. 12. t. 16. f. 9.*
- uniflora*. Stem 1-flowered: calyx without bracte.
Virginia. *Pluk. mant. 89. t. 348. f. 3.* Gentiana.
Sheath spathe-like: flowers pale blue, drooping.

B. Corol 5-cleft.

- *cærulea*. Stem simple: upper-lip of the corol cloven and notched: bractes 3 together: calyx tubular, half 4-cleft.
Pastures. *Engl. bot. t. 423. Moris. sect. 12. t. 16. f. 2.*
- Phelypæa*. Stem simple: corol 5-cleft, cylindrical: bractes 3 together: calyx 5-parted.
Barbary. *Desfont. atl. 2. p. 60. t. 145.* Phelypæa.
- infloria*. Stem simple: corol 5-cleft, inflated, incurved: bractes 3 together: calyx 5-parted.
Barbary; Portugal. *Desfont. atl. 2. t. 146.* Phelypæa.
- ernua*. Stem simple: corol recurved: bractes ovate, shorter than the corol: stem almost naked.
Spain; Siberia. *Sp. pl. 882.*
- ramosa*. Stem branched: corol 5-cleft: bractes 3 together: calyx short, deeply 4-cleft.
Cultivated fields. *Engl. bot. tab. 184.*
- occinea*. Stem 1-flowered: corol 5-cleft, inflated: calyx 5-parted, without bracte.
Siberia. *Willd. sp. pl. 3. p. 354. n. 18.*

1220. HYOBANCHE. *Calyx* 7-leaved: *corol* ringent, without any lower-lip: *capsule* 2-celled, many-seeded.

sanguinea. HYOBANCHE.

The Cape. *Petiv. gaz. t. 37 f. 4.* Orobanche.

Plant parasitic, scarlet: *stem* simple, imbricate with leaves: *spike* villous: *bractes* ovate-oblong.

1221. DODARTIA. *Calyx* 5-toothed: *corol* with the lower-lip twice as long as the upper: *capsule* globular, 2-celled.

orientalis. Leaves linear, entire, glabrous.

Armenia. *Miller fig. t. 27. Tournes. it. 3. t. 208.*

Root creeping: *leaves* opposite, fleshy: *flowers* racemed.

indica. Leaves ovate, serrate, villous.

India. *Stems* villous, slightly branched: *flowers* yellow.

1222. LIPPIA. *Calyx* 4-toothed, roundish, erect, compressed and membranaceous: *capsule* 2-celled, 2-seeded, straight.

americana. Heads solitary, square, peduncled, axillary: leaves lance-ovate, serrate beyond the middle.

Vera Cruz. *Banks. reliq. Houst. t. 12.*

Shrub with round stems compressed at the joints: *leaves* rough, opposite: *heads* imbricate with numerous scales.

hemisphærica. Heads solitary, conic-hemispherical, peduncled, axillary: leaves oblong, entire, pointed.

South America. *Jacq. Amer. t. 179. f. 100.*

Shrub aromatic, with the flowering branches square.

hirsuta. Heads ovate, paniced, axillary: leaves oblong, wrinkled ferrate, downy underneath.

America. *Stem* square, hoary: *flowers* small, white.

umbellata. Heads hemispherical, umbelled, axillary: leaves oblong, wrinkled, ferrate, hoary underneath.

Mexico. *Cavan. ic. 2. p. 75. tab. 194.*

Bractes numerous, heart-shaped: *flowers* yellow.

cymosa. Cyme nearly forming a head, axillary, solitary: leaves elliptic, nearly entire.

Jamaica. *Sloane Jam. 2. t. 174. f. 3, 4.*

Flowers not in heads: *branches* spinous.

1223. ACHIMENES. *Calyx* 5-parted: *corol* nearly equal, with a flat 4-cleft border: *antheræ* united: *capsule* 2-celled.

sesamoides. ACHIMENES.

East Indies. *Rheed. Mal.* 9. p. 169. t. 87.

Stem herbaceous: *leaves* opposite, sessile, lanceolate, slightly serrate: *racemes* terminal, elongated.

1224. SESAMUM. *Calyx* 5-parted: *corol* campanulate, 5-cleft, with the lowest lobe larger: rudiment of a fifth filament: *stigma* lanceolate: *capsule* 4-celled.

orientale. Leaves ovate-oblong, entire.

East India. *Burm. zeyl.* t. 38. f. 1. *Rheed. Mal.* 9. t. 54.

Stem erect, hairy: *leaves* opposite: *flowers* axillary, solitary: *corol* white, resembling that of the *Digitalis*.

luteum. Leaves lanceolate, on long petioles: *corol* bristly outward.

East Indies. *Retz. obs.* 6. p. 31. *Willd.* 3. p. 358.

Leaves alternate: *flowers* yellow, axillary, solitary.

indicum. Leaves ovate-lanceolate; the lower-ones 3-lobed, upper-ones undivided: *stem* erect.

India. *Rumph. amb.* 5. t. 76. f. 1. *Pluk. alm.* t. 109. f. 4.

laciniatum. All the leaves 3-parted and jagged: *stem* prostrate, bristly.

East Indies. *Willd. sp. pl.* 3. p. 359. n. 4.

Leaves rough both sides, whitish underneath.

1225. STREPTIUM. *Calyx* swelling, 5-toothed: *corol* with a spiral tube and 5-parted border: *nuts* 2, 2-celled, wrinkled externally.

asperum. STREPTIUM.

Tortula aspera. *Willd. sp. pl.* 3. p. 359.

East Indies. *Roxb. Corom.* 2. p. 25. t. 146.

Stem woody, with square rough branches: *leaves* hearted, serrate, rough both sides: *racemes* terminal.

1226. HOLMSKIOLDIA. *Calyx* 5-toothed, dilated, very much spread: *corol* ringent: *capsule* 1-celled? many-seeded.

anguinea. HOLMSKIOLDIA.

Bengal. *Retz. obs.* 6. p. 31. *Willd.* 3. p. 360.

Shrub with square branches: *leaves* opposite, ovate or heart-shaped, acute, serrate, dotted: *peduncles* axillary, opposite, many-flowered, leafy: *calyx* and *corol* red.

1227. MIMULUS. *Calyx* 5-toothed; prismatic; the upper-lip folded back at the sides: *capsule* 2-celled, many-seeded. *Monkey-flower.*

ringens. Leaves lanceolate, pointed, glabrous, sessile: peduncles longer than the flower.

Virginia. *Curt. mag. t. 213. Moris. sect. 5. t. 8. f. 6.*

Plant glabrous: flowers violet-blue.

glutinosus. Leaves oblong, rather obtuse, viscid, sessile: peduncles shorter than the flowers.

— *Curt. mag. t. 354.* Plant viscid: flowers orange.

alatus. Erect: leaves ovate, petioled: stem with 4 membranaceous wings.

North America. *Aiton Kew. 2. p. 361.*

Plant glabrous: *calyx* with rounded mucronate segments.

luteus. Leaves roundish-ovate, nerved; the lower-ones petioled: stem creeping.

Peru. *Feuill. Peruv. 2. t. 34.* Flowers yellow.

1228. RUELLIA. *Calyx* 5-parted: *corol* somewhat campanulate: *stamina* approaching each other in pairs: *capsule* bursting by elastic teeth.

Blechnum. Leaves ovate, serrate-toothed, a little hairy: spikes ovate: inner-bractes in pairs: flowers 3 together, sessile.

Jamaica. *Sloane Jam. 1. p. 173. t. 109. f. 1.* Brunella.

Stem herbaceous, branched, square, striate: spikes terminal, square: flowers whitish-blue.

Blechnioides. Leaves oblong, slightly toothed, glabrous: spikes ovate: flowers longer than the bractes.

Jamaica. *Swartz prodr. 94. Fl. ind. occ. 2. p. 1068.*

Leaves often very entire: flowers whitish.

angustifolia Leaves linear-lanceolate, entire: spikes oblong: bractes ovate, hairy.

Caribbees. *Swartz prodr. 93. Fl. ind. occ. 2. p. 1070.*

Branches with tumid joints: flowers small, blue.

ovata. Leaves sessile, oblong, very entire, pointed to both ends, villous: flowers 3 together, nearly sessile: stem ascending.

Mexico. *Cavan. ic. 3. p. 28. tab. 254.*

Flowers on short peduncles: *corol* large, deep blue.

strepens. Leaves petioled, ovate, very entire: peduncles 3-flowered, very short: stem erect.

Virginia. *Dill. elth. t. 249. f. 321. Hort. Rom. 2. t. 92.*

Stems with 4 green angles: *corol* pale with a blue palate.

- parala.* Leaves petioled, ovate, very obtuse, entire, pubescent: flowers 3 together, nearly sessile: stem erect, divaricate.
East Indies. *Jacq. ic. rar. 1. tab. 119.*
Plant viscid downy: flowers pale violet.
- pallida.* Leaves petioled, ovate, undulate-crenate, rough at the margin: flowers axillary, solitary, sessile.
Arabia Felix. *Vahl. symb. 2. p. 72.*
- fragrans.* Leaves sessile, oblong, obtusely ferrate: flowers axillary, solitary, sessile.
Otaneire. *Forst. prodr. n. 243. Wild. 3. p. 364.*
- lactea.* Leaves petioled, oblong-ovate, ciliate, slightly toothed: peduncles very short, 2 or 3-flowered: stem erect, clothed with thick down.
Mexico. *Cavan. ic. 3. p. 28. tab. 253.*
Stem thickly clothed with straight white jointed hairs.
- clandestina.* Leaves petioled, oblong, obtuse, tapering to the base, slightly toothed: peduncles 3-flowered, shorter than the leaves.
Barbadoes. *Dill. elib. 328. t. 248. f. 320.*
- violacea.* Leaves petioled, oblong, acute, toothed, downy: peduncles 1-flowered, elongated, shorter than the leaves.
Guiana. *Aubl. Gui. 2. p. 668. t. 271.*
Corol with acute divisions: bractes linear, long.
- rubra.* Leaves petioled, oblong, pointed: peduncles many-flowered, somewhat corymbed: corol with the border fringed.
Guiana. *Aubl. Gui. 2. p. 666. t. 270.*
- macrophylla.* Leaves ovate-lanceolate, pointed, entire: peduncles elongated, 2-flowered.
America. *Vahl. symb. 2. p. 72. t. 39.*
Stem square, pubescent: bractes lanceolate, ciliate: 2 upper segments of the corol rounded, 3 lower-ones ovate.
- guttata.* Leaves ovate-lanceolate, undulate, rough at the edge: spikes terminal, imbricate.
Arabia Felix. *Vahl. symb. 2. p. 72.*
- imbricata.* Leaves petioled, ovate, undulate-crenate, with the opposite one less: spikes imbricate, leaning one way.
Arabia Felix; India. *Vahl. symb. 2. p. 73.*
Leaves acutely denticulate, oblique: flowers white.
- aristata.* Leaves ovate, hoary underneath: head terminal: calyx and nerved bractes awned: stem shrubby.
Arabia Felix. *Vahl. symb. 2. p. 73.*
Leaves obtuse, very entire: corol hairy outwardly.

- intrusa.* Leaves petioled, ovate, hairy: flowers spiked, leaning one way.
Arabia Felix. *Vabl. symb.* 1. p. 45.
Branches square, with thickened joints: *leaves* entire, acute: *bractes* setaceous: *corol* violet, pubescent outwardly.
- paniculata.* Leaves very entire: peduncles forked: lateral calyxes sessile, with the upper division larger.
Jamaica. *Sloane Jam.* 1. p. 158. t. 100. f. 2.
Leaves roughish: *bractes* lanceolate, as long as the peduncles: *corol* purplish, 2-lipped, upper-lip cloven, lower 3-cleft.
- tuberosa.* Leaves wedge-ovate, crenate: peduncles 3-parted.
Jamaica. *Sloane Jam.* 1. p. 149. t. 95. f. 1. *Gentianella.*
Root tuberous: *flowers* fine blue.
- tentaculata.* Leaves obovate, whorled, surrounded with unarmed forked spines.
India. *Pluk. phyt.* t. 279. f. 7. *Euphrasia.*
- biflora.* Flowers in pairs, sessile.
Carolina. *Flowers* 2 from each axil.
- crispa.* Leaves slightly crenate, lance-ovate: heads ovate, leafy, bristly: stem creeping.
India. *Petiv. gaz.* t. 73. f. 6? *Adhatoda.*
Stems simple, jointed roundish: *flowers* yellow.
- fasciculata.* Leaves petioled, oblong, toothed; petioles winged: flowers clustered, lateral and terminal.
Ceylon. *Vabl. symb.* 3. p. 82.
Stem decumbent, square: *leaves* opposite, one of them less.
- mollissima.* Leaves petioled, broad lanceolate, entire, very soft: flowers fascicled.
Madagascar. *Vabl. symb.* 3. p. 82.
Plant soft, villous: *leaves* opposite, pendulous.
- undulata.* Leaves petioled, oblong, undulate: heads axillary, sessile: stem erect.
East Indies. *Vabl. symb.* 3. p. 82.
Stem erect, square, glabrous; the joints thicker and ciliate with hairs: *leaves* obtuse, glabrous; *corol* glabrous.
- involutrata* Leaves lanceolate, very entire, glabrous: heads terminal, involucred, hairy.
East Indies. *Vabl. symb.* 3. p. 83.
Bractes 4 under each head, ovate, acute, hairy, ciliate.
- repanda.* Leaves lanceolate, obtusely toothed, petioled: stem creeping.
Java. *Eurm. ind.* t. 40 f. 2. *Rumph. amb.* 6. t. 13. f. B.
Stems filiform, smooth: *leaves* glabrous: *spikes* axillary, peduncled; *bractes* linear; *calyx* awned with hairs.

- ringens.* Leaves oblong, very entire: flowers solitary, sessile: stem procumbent.
East Indies. *Rheed. Mal.* 9. p. 125. t. 64.
Bractes 2, sessile, shorter than the calyx.
- coccinea.* Flowers axillary and terminal, mostly solitary, sessile: leaves ovate, toothed.
Barleria coccinea. *Sp. pl.* 888. Flowers scarlet.
South America. *Plum. ic.* 43. f. 1. Barleria.
- repens.* Leaves lanceolate, pointed, very entire: flowers sessile: bractes petioled, longer than the calyx: stem creeping.
India. *Burm. ind.* t. 41. f. 1. *Houtt. syst.* 8. t. 59. f. 2.
Flowers solitary: bractes 2, elliptic, petioled.
- uliginosa.* Diffuse, hairy: leaves sessile, oblong, entire: spikes terminal, square.
Tranquebar. *Linn. suppl.* 290.
- villosa.* Leaves opposite, ovate, entire, ciliate: flowers terminal, solitary.
The Cape. *Linn. suppl.* 290.
- hirta.* Leaves petioled, oblong, ferrate: spikes terminal, imbricate: stem creeping.
East Indies. *Vahl symb.* 3. p. 84. t. 67.
Plant hairy: bractes oblong, as long as the calyx.
- depressa.* Leaves opposite, obovate, petioled, entire: stem pressed close to the ground.
The Cape. *Linn. suppl.* 290.
- cordifolia.* Leaves heart-ovate, sessile, hoary-downy underneath: flowers somewhat spiked.
East Indies. *Vahl symb.* 3. p. 84.
Leaves entire, acute: bracte linear, as long as the calyx.
- secunda.* Leaves somewhat heart-ovate, very entire, villous: racemes axillary, leaning one way.
East Indies. *Vahl symb.* 3. p. 84.
Plant pubescent: bractes setaceous, shorter than the pedicel: calyx hairy: corol glabrous, yellow.
- repans.* Leaves petioled, ovate, obtuse, obtusely ferrate: peduncles terminal, somewhat spiked.
Tanna Island. *Forst. prodr.* n. 242.
- aponica.* Leaves elliptic: flowers spiked: bractes oblong, obtuse.
Japan. *Houtt. syst.* 8. p. 171. t. 59. f. 1.
Stem brown, erect: leaves entire, veined, glabrous.
- alopecuroides.* Leaves ovate, glabrous, obscurely repand: spikes terminal, hairy: stem creeping.
Montserrat. *Vahl. eclog.* 2. p. 49.

Leaves petioled : *bractes* 2, subulate, at the base of the calyx : *calyx* with 4 subulate leaflets ; the fifth a little longer, linear-lanceolate, awned ; all of them membranaceous, with 3 coloured ciliate lines.

barbata. *Leaves* lanceolate, very entire : flowers whorled : calyx acute : bractes oblong : stem erect.

East Indies. *Vahl symb.* 3. p. 83.

Leaves sessile : flowers 3 each side : upper-lip of the corol undivided, compressed, lanceolate, obtuse ; lower-lip covered above with long hairs, with 3 linear acute segments.

balsamea. Erect, glabrous : leaves petioled, lanceolate, serrate : whorls of flowers sessile.

East Indies. *Leaves* glabrous, glutinous : corol yellow.

salicifolia. *Leaves* lanceolate, very entire : flowers whorled : calyx awned : bractes lanceolate : stem erect.

East Indies. *Vahl symb.* 3. p. 84.

Leaves pale green underneath : bractes obtuse.

longiflora. *Leaves* ovate, very entire : flowers axillary, solitary, very long : stem shrubby.

Arabia Felix. *Vahl symb.* 1. p. 45. t. 15.

difformis. Diffuse, hairy : leaves linear, tooth-sinuate, entire : flowers in whorls, axillary.

East Indies. *Rheed. Mal.* p. 89. t. 46.

Leaves some entire, some serrate, some deeply toothed.

rupestris. Stemless : leaves oblong, crenate, repand : petioles very long : scapes many-flowered.

Hispaniola. *Savartx prodr.* 93. *Fl. ind. occ.* 2. p. 1071.

Willdenow suspects this to be *Gerardia tuberosa*. *Linn.*

scabrosa. Stemless : leaves ovate, somewhat repand, coriaceous, glabrous : scapes many-flowered.

Hispaniola. *Savartx Fl. ind. occ.* 2. p. 1074.

1229. BARLERIA. *Calyx* 4-parted : corol funnel-form, 5-cleft : 2 of the *stamina* much less capsule quadrangular, 2-celled ? 2-valved, elastic without claws : seeds 2.

longifolia. Spines 6 to each whorl : leaves ensiform, very long, rough India. *Pluk. alm.* 30. t. 133. f. 4. *Anchusa.*

Stem bristly : spines 3 each side, as long as the whorls,

solanifolia. Spines axillary : leaves lanceolate, denticulate.

South America. *Plum. gen.* 31. ic. 43. f. 2.

Spines 6 under each whorl, as long as the calyx.

Hystrix. Spines axillary, in pairs, simple : leaves very entire lance-ovate.

India. *Pluk. alm. t. 119. f. 5. Rumph. amb. 7. t. 13.*

Stem wand-like: *branches* nearly square: *leaves* glabrous.

erionitis. Spines axillary, pedate, in fours: leaves very entire, lance-ovate.

India. *Rheed. Mal. 9. p. 77. tab. 41.*

Stem round: *leaves* pubescent underneath.

ispinosa. Spines axillary, compound, 3-rayed: spikes terminal, imbricate.

Arabia Felix. *Vahl. symb. 1. p. 46.* Spines white.

ispinosa. Spines axillary, 2-rayed, supporting the flowers: leaves ovate, hairy underneath.

Arabia Felix. *Vahl. symb. 1. p. 46.*

Spines sometimes twice cloven, longer than the leaf.

uxifolia. Spines opposite, axillary, solitary: leaves roundish, very entire.

Indies. *Rheed. Mal. 2. p. 91. t. 47.*

octiflora. Spines axillary, branched: leaves lanceolate, very entire, ending in a point: bractes ovate, scarious: tube of the corol elongated.

Arabia Felix. 2) Bractes spinous at the edge.

Bractes glabrous; flowers blue.

cantboides. Spines in pairs, axillary, foliaceous: spikes axillary, leaning one way.

Arabia Felix. *Vahl. symb. 1. p. 47.*

Leaves oblong, very entire, ending in a point, hairy.

istata. Leaves oblong, very entire: 2 leaflets of the calyx broader and ciliate, 2 linear and acute.

India. *Moris. sect. 11. t. 23. f. 7. Osb. it. 225. t. 8.*

Stem round: flowers axillary, sessile, blue.

rigosa. Unarmed: leaves oblong, with lanceolate bristles underneath: petioles and branches with lanceolate bristles: bractes ciliate.

East Indies. *Willd. sp. pl. 3. p. 379. n. 11.*

Spikes terminal, ovate: flowers blue.

agens. Leaves ovate, acute, pungent: bractes ciliate: spines 9.

The Cape. *Linn. suppl. 290.*

agiflora. Unarmed: leaves ovate, silky: bractes heart-shaped, scarious: corol very long.

Malabar. *Vahl. symb. 1. p. 46. t. 16.*

Branches silky: leaves very entire: flowers terminal: bractes reticulate, sessile, with 4 other linear silky ones under them disposed crosswise.

1230. DURANTA. *Calyx* 5-cleft, superior: *corol* funnel-form, 5-cleft: *berry* 1-celled, containing 4 2-celled nuts.

Plumieri. *Calyx* when in fruit twisted.

South America. *Jacq. Amer. t. 176. f. 76. Ic. rar. 3. t. 502.*

Shrub with subulate spines which are often wanting: *leaves* lanceolate, acute, obtusely ferrate: *racemes* axillary and terminal: *flowers* blue: *fruit* yellow.

Ellisia. *Calyx* when in fruit erect.

Jamaica. *Brown Jam. t. 29. f. 2. Jacq. Amer. t. 176. f. 77.*

Leaves ovate-lanceolate, pointed, ferrate: *racemes* compound, terminal: *flowers* blue.

Mutisii. *Leaves* elliptic, very entire.

South America. *Linn. suppl. 291.*

1231. MYOPORUM. *Calyx* 5-parted: *corol* campanulate, with a spreading nearly equal 5-parted border: *drupe* 1 or 2-seeded, with 2-celled nuts.

latum. *Leaves* oblong, slightly ferrate at top, smooth, glabrous, shining: *corol* hairy.

New Zealand. *Forst. prodr. n. 238.*

pubescens. *Leaves* oblong-elliptic, ferrate, pubescent.

New Zealand. *Forst. prodr. n. 239.*

crassifolium. *Leaves* oblong, slightly ferrate, fleshy.

Botany Island. *Forst. prodr. n. 240.*

tenuifolium. *Leaves* lanceolate, pointed, very entire: *corol* smooth.

New Caledonia. *Forst. prodr. n. 241.*

These seem to differ very little from the Genus *Citharexylon*.

1232. OVIEDA. *Calyx* 5-cleft: *corol* superior, very long, cylindrical, with the border 3-lobed: *berry* globular, 1-celled, 4-seeded.

spinosa. *Leaves* oval, toothed.

Hispaniola. *Plum. gen. 14. Ic. 256.*

Leaves opposite; the teeth ending in spines: *flowers* terminal, corymbed, nearly sessile: *berries* black.

mitis. *Leaves* lanceolate, somewhat repand.

Java. *Burm. Ind. t. 43. f. 1. Corymbs* forked.

1233. MALLINGTONIA. *Calyx* with a 5-toothed reflected margin: *corol* with a very long tube and 4-cleft border: *antheræ* 2-parted, sheathing: *siliqua*?

bortensis. MALLINGTONIA.

Tree very large: *leaves* compound, doubly pinnate; leaflets ovate, entire, glabrous: *panicle* terminal: *corol* white, odorous.

1234. VOLKAMERIA. *Calyx* 5-cleft: *corol* with all the divisions pointing one way: *drupe* 2-seeded: *nuts* 2-celled.

aculeata. Leaves oblong, acute, very entire: spines from the rudiments of the petioles.

Jamaica. *Brown Jam.* t. 20. f. 2. *Sloane Jam.* 2. t. 166. f. 2, 3.

ligustrina. Leaves oblong-lanceolate, very entire; petioles, peduncles and calyx hairy.

Mauritius. *Jacq. collect. suppl.* 118. t. 5. f. 1.

Corol thrice as long as the calyx: *filaments* white.

inermis. Leaves ovate, very entire, shining: petioles, peduncles and calyx glabrous.

East Indies. *Jacq. coll. suppl.* t. 4. f. 1. *Rheed. Mal.* 5. t. 49.

capitata. Leaves ovate, very entire, rough: flowers in terminal heads: calyx foliaceous.

Guinea. *Willd. sp. pl.* 3. p. 384. n. 4.

Branches greyish, glabrous: *leaves* opposite, ending in an obtuse point: *flowers* white.

serrata. Leaves broad lanceolate, serrate, nearly sessile.

India. *Calyx* campanulate, undivided.

scandens. Leaves petioled, heart-shaped, ovate, very entire: panicle corymbed, terminal; branchlets forked.

Ceylon. Tree climbing: *leaves* large, glabrous, obtuse: *panicle* downy: *calyx* obtuse: *flowers* white.

japonica. Unarmed: leaves heart-shaped, ovate, acute, toothed: racemes leaning one way.

Japan. *Thunb. Jap.* 255. *Willd.* 3. p. 385.

Tree with compressed branches: *leaves* glabrous.

Kampferi. Leaves heart-shaped, pubescent, denticulate: panicle terminal, divaricate: peduncles coloured.

China. *Jacq. ic. rar.* 3. t. 500. *Banks. ic. Kampf.* t. 58.

Leaves roundish, with a short point: *flowers* scarlet.

- 1235. CLERODENDRON.** *Calyx* 5-cleft, campanulate: *corol* with a filiform tube, and 5-parted equal border: *stamina* very long, placed between the segments of the corol which gape very much: *drupe* 4-seeded, with a 1-celled nut.
- infortunatum.* Leaves heart-shaped, downy.
India. *Rumph. amb.* 4. t. 49. *Rheed. Mal.* 2. t. 25.
Tree with large entire leaves: *panicle* terminal: *flowers* scarlet.
- fortunatum.* Leaves lanceolate, naked, very entire.
India. *Osbeck. it.* 228. *tab.* 11. Shrub hoary.
- calamitosum.* Leaves oval, naked, slightly toothed.
Java. *Burm. Ind.* 137. t. 44. Leaves opposite, petioled.
- phlomidoides.* Leaves ovate, entire, toothed and angular: peduncles axillary, about 3-flowered.
East Indies. *Burm. Ind.* 137. t. 45. f. 1.
Shrub hoary: *flowers* white, with a slender tube.
- squamatum.* Leaves heart-shaped, obscurely angular: branches of the panicle forked, glabrous.
East Indies. *Vahl. symb.* 2. p. 74. *Willd.* 3. p. 387.
Leaves scaly underneath, all entire: *calyx* and *corol* glabrous.
- trichotomum.* Leaves lobed and undivided, broad-ovate, very entire: panicle trichotomous.
Japan. *Banks. Kämpf. ic.* *tab.* 22.
- diversifolium.* Leaves entire and 3-lobed, ovate: panicle with forked villous branches; pedicels racemed.
East Indies. *Vahl. symb.* 2. p. 75. *Willd.* 3. p. 387.
- paniculatum.* Leaves 5-lobed, denticulate, glabrous: panicle cross-armed; the branches woolly at the insertion.
India. Leaves 5 or 3-lobed, hearted: *stem* grooved.

1236. THUNBERGIA. *Calyx* double; the outer 2-leaved, inner 12-toothed: *corol* campanulate: *capsule* beaked, 2-celled.

- capensis.* Leaves ovate, obtuse: *stem* diffuse.
The Cape. *Retz. Act. Lund.* 1. p. 163. *tab.*
Stem square, hairy: *leaves* hairy beneath: *corol* yellow.
- fragrans.* Leaves heart-shaped, pointed, somewhat angular-toothed at the base: *stem* climbing.
East Indies. *Roxb. Corom.* 1. p. 47. t. 67.
Plant very much resembling *Convolvulus Sepium*.

1237. MAURANDA. *Calyx* 5-parted: *corol* campanulate, unequal: *filaments* callous at the base: *capsules* 2, united, half 5-valved at top.

*semperflo-
rens.*

MAURANDA.

Mexico. *Curt. mag. t. 460. Andr. repof. t. 63.*

Shrub climbing: *leaves* halbert-shaped, nerved, glabrous: *pe-
duncles* axillary, 1-flowered: *flowers* nodding, violet.

1238. CASTILLEIA. *Calyx* tubular, compressed; the upper-lip cloven, lower-lip 0: *corol* 2-lipped; the lower-lip very short and 3-cleft, with 2 glands between the divisions: *capsule* 2-celled.

integrifolia. Leaves linear-lanceolate, entire.

New Granada. *Smith ic. ined. tab. 39.*

lanceifolia. Leaves cut in a pinnate manner at top.

New Granada. *Smith ic. ined. tab. 40.*

Stems in both herbaceous, and the *flowers* racemed.

1239. VITEX. *Calyx* 5-toothed: *corol* with the border 6-cleft: *drupe* 1-seeded, with a 4-celled nut. *Chaste-tree.*

ovata. Leaves simple, ovate.

Japan. *Leaves* decussate, entire, obtuse, downy beneath.

triflora. Leaves ternate, glabrous: *peduncles* axillary and terminal, 3-flowered.

Cayenne. *Vahl. eclog. 2. p. 49. Willd. 3. p. 390.*

divaricata. Leaves ternate, glabrous both sides, entire; the terminal one very large: *panicle* forked, divaricate.

West Indies. *Swartz prodr. 93. Fl. ind. occ. 2. p. 1078.*

pubescens. Leaves ternate, pubescent: *panicle* trichotomous: *bractes* as long as the *calyx*.

East Indies. *Vahl. symb. 3. p. 85.*

Leaves not hoary underneath: *pedicels* not forked.

altissima. Leaves ternate, very entire: *panicle* whorled: *spikes* whorled; *berry* 3-seeded.

Ceylon. *Leaves* ovate, pubescent underneath.

Agnus castus Leaves in 7 or 5 finger-like divisions, lanceolate, nearly entire: *spikes* whorled, panicled.

Sicily. *Woodv. t. 222. Blackw. t. 139. Ludw. ect. t. 28.*

Leaves downy underneath: *flowers* purplish.

- incisa.* Leaves in 5 finger-like divisions; the leaflets deeply cut: spikes somewhat whorled.
China. *Mill. fig. t. 275. f. 1, 2.* Leaves downy underneath.
- Leucoxylon.* Leaves in 5 finger-like divisions; leaflets petioled, oblong, very entire: panicle forked: berry 1-seeded.
Ceylon. *Leaves* glabrous both sides.
- trifolia.* Leaves in three and five divisions; leaflets ovate, acute, very entire, hoary underneath: panicle with a straight common stalk: pedicels forked.
India. *Rumph. amb. 4. t. 18. Rheed, Mal. 2. t. 10.*
- umbrosa.* Leaves in 5 divisions, very entire, glabrous both sides: racemes compound, axillary.
Jamaica. *Swartz prodr. 93. Fl. ind. occ. 2. p. 1076.*
- capitata.* Leaves in 5 finger-like divisions; leaflets lanceolate, glabrous, very entire: flowers in somewhat umbelled heads.
Trinity Island. *Vahl. eclog. Amer. 2. p. 50. t. 18.*
- Negundo.* Leaves in 5 and 3 divisions, serrate: flowers in panicled racemes.
India. *Cart. mag. t. 364. Rumph. amb. 4. t. 19.*
Leaves naked underneath: *flowers* purple.
- pinnata.* Leaves pinnate; the divisions very entire: panicles trichotomous.
Ceylon. *Burm. Ind. 138. t. 143. f. 2.*

1240. AMASONIA. *Calyx* 5-cleft: *corol* tubular, with a small 5-cleft border: *berry* 4-seeded.

- erecta.* Leaves lance-ovate, slightly serrate, rough: bractes sessile, longer than the flower.
Surinam. *Aubl. Gui. 2. t. 252?*
Stem simple, round: *raceme* terminal, simple; pedicels 3-flowered: *flowers* pointing one way, nodding, yellow.
- punicea.* Leaves lance-ovate, serrate, smooth: bractes sessile, longer than the flower.
Trinity Island. *Vahl. eclog. 2. p. 51. Willd. 3. p. 394.*

1241. BONTIA. *Calyx* 5-parted: *corol* 2-lipped; the lower-lip 3-parted, revolute: *drupe* ovate, 1-seeded, with an oblique tip: *nut* 1-celled.

- daphnoides.* BONTIA. *Barbadoes Wild-Olive.*
West Indies. *Dill. elth. 57. t. 49. f. 57. Pluk. alm. t. 209. f. 2.*
Leaves alternate, glabrous; the lower-ones slightly toothed: *peduncles* 1-flowered: *corol* yellow, with a purple line down the lower-lip.

1242. AVICENNIA. *Calyx* 5-parted: *corol* 2-lipped; the upper-lip square: *capsule* coriaceous, rhomboid, 1-seeded.

tomentosa. Leaves oblong, obtuse, downy underneath.
Indies. *Jacq. Amer. t. 112. f. 2. Rheed. Mal. 4. t. 45.*
Leaves opposite, hoary underneath: *flowers* white.

resinifera. Leaves ovate-lanceolate, downy underneath.
New Zealand. *Forst. prodr. n. 246.*
Leaves opposite, entire, acute: *petioles* wrinkled on the outside:
peduncles terminal, loaded with a head of flowers.

nitida. Leaves lanceolate, shining both sides.
Martinico. *Jacq. Amer. 177. t. 112. f. 1.*
Tree 40 feet high: *peduncles* racemed: *flowers* whitish.

1243. COLUMNEA. *Calyx* 5-parted: *corol* ringent, gibbous above the base; the upper-lip 3-parted, with the middle division vaulted: *capsule* 1-celled: *seeds* imbedded in the receptacle.

scandens. Leaves ovate, acute, very entire, somewhat villous: divisions of the calyx entire, pubescent: *corol* pubescent, with the upper-lip undivided.
Caribbees; Guiana. *Plum. gen. 28. ic. 89. f. 1.*
Stem climbing, angular, striate, brittle: *leaves* ovate, serrate: *flowers* solitary, axillary, red.

hirsuta. Leaves ovate, pointed, serrate, hairy above: divisions of the calyx denticulate, lanceolate, hairy: *corol* hairy.
Jamaica. *Brown Jam. t. 30. f. 3. Sloane Jam. 1. t. 100. f. 1.*

bispida. Leaves ovate, obtuse, denticulate, hairy: divisions of the calyx lanceolate, entire, hairy: stem hairy, rough.
Jamaica. *Savartx prodr. 94. Fl. ind. occ. 2. p. 1085.*

rutilans. Leaves ovate-lanceolate, denticulate, roughish, hairy and coloured underneath: divisions of the calyx jagged, villous: *corol* villous.
Jamaica. *Savartx prodr. 94. Fl. ind. occ. 2. p. 1083.*

1244. ACANTHUS. *Calyx* 2-leaved, cloven: *corol* 1-lipped, deflected, 3-cleft: *capsule* 2-celled, 2-valved.

mollis. Leaves sinuate, unarmed.
Italy. *Hort. Rom. 3. t. 13. Ludw. ect. 1. 126. Blackw. t. 89.*
Leaves oblong, shining, deeply divided, ciliate: *flowers* white.

- carduiifolius* Leaves tooth-sinuate, spinous: spike of flowers radical.
The Cape. Stem hardly any: segment of the leaves spinous.
- spinous.* Leaves pinnate, spinous.
Italy. *Hort. Rom.* 3. t. 14. Calyx spinous.
- arboreus.* Leaves sinuate-toothed, spinous, glabrous: stem shrubby.
Arabia Felix. *Vabl. symb.* 1. p. 47.
- Dioscoridis.* Leaves lanceolate, entire, spinous at the margin.
The East. *Sp. pl.* 891.
- ilicifolius.* Leaves repand, with thorny teeth: stem shrubby, prickly.
India. *Rheed. Mal.* 2. t. 48. *Pet. gaz.* t. 94. f. 15.
Calyx composed of 6 imbricate leaflets.
- ebracteatus.* Leaves lance-elliptic, toothed: spike terminal: stem shrubby, unarmed: calyx 4-leaved.
India. *Vabl. symb.* 2. t. 40. *Rumph. amb.* 6. t. 71. f. 1.
- capensis.* Leaves oblong, toothed, spinous: stem shrubby, erect: bractes ending in a simple spine.
The Cape. Spikes terminal, solitary, sessile.
- furcatus.* Leaves oblong, tooth-spinous: stem shrubby: bractes ending in a 3-forked spine.
The Cape. *Linn. suppl.* 295.
- procumbens.* Leaves oblong, with ciliate serratures: stem procumbent, shrubby.
The Cape. *Linn. suppl.* 294.
- integrifolius* Leaves oblong, entire: stem procumbent, herbaceous.
The Cape. *Linn. suppl.* 294.
- repens.* Stem creeping, bristly: leaves in fours, linear, entire, somewhat ciliate: flowers axillary, solitary.
East Indies. *Vabl. symb.* 2. p. 76. Leaves glabrous.
- edulis.* Leaves in fours, linear-lanceolate, with spinous teeth: stem somewhat shrubby.
Arabia Felix. *Burm. Ind.* 135. t. 42. f. 1. *Ruellia*.
- maderaspensis.* Leaves in fours: flowers axillary: calyx ciliate.
India. *Burm. Ind.* t. 42. f. 2. *Pluk. phyt.* t. 99. f. 3.
Stem herbaceous, forked: leaves elliptic, unarmed: outer-calyx imbricate, with 4 pair of obovate wedge-shaped ciliate leaflets; inner 4-leaved: capsule red.

1245. LEPIDAGATHIS. Calyx many-leaved, imbricate: corol 2-lipped; the upper-lip very small, lower-lip 3-parted: capsule 2-celled, 2-valved.

cristata.

LEPIDAGATHIS.

East Indies. *Willd. sp. pl.* 3. p. 400.

Stems woody, diffuse, branched : *leaves* opposite, sessile, linear, obtuse, entire, glabrous, rough at the edge : *flowers* in heads : scales of the *calyx* mucronate ; the inner-ones pubescent.

1246. ALECTRA. *Calyx* 2-lipped ; the upper-lip cloven, lower-one 3-cleft : *corol* funnel-form : *filaments* bearded : *capsule* 2-celled, double : *seeds* solitary.

capensis. ALECTRA.

The Cape. *Thunb. nov. gen. plant.* 3. p. 82.

Stem erect, simple, striate, villous : *leaves* scattered, sessile, ovate, obtuse : *flowers* spiked, yellow with purple streaks.

1247. PEDALIUM. *Calyx* 5-parted : *corol* somewhat ringent, with the border 5-cleft : *nut* corky, 4-sided, with spinous angles, 2-celled : *seeds* 2.

murex. PEDALIUM.

India. *Burm. Ind. t.* 45. f. 2. *Rheed. Mal.* 10. t. 72.

Stem simple : *leaves* opposite, obovate, obtuse, truncate, naked, with glandular petioles : *flowers* axillary, solitary.

1248. MELIANTHUS. *Calyx* 5-leaved ; the lower leaflet gibbous : *petals* 4, with the nectary beneath the lowest : *capsule* 4-celled.

Honey-flower.

major. Stipules solitary, growing to the petiole.

The Cape. *Mill. illustr. Herm. lugdb. t.* 415.

minor. Stipules distinct : racemes axillary, elongated : flowers whorled : bractes linear, tapering.

The Cape. *Leaves* hoary underneath, glabrous above.

comosus. Stipules distinct : racemes below the leaves : flowers alternate : bractes heart-shaped : leaves villous above.

The Cape. *Comm. rar.* 4. t. 4. *Vabl. symb.* 3. p. 86.

These are all *shrubs* with alternate unequally pinnate leaves on a winged petiole : *flowers* in spikes. The first, if shaken while in flower, discharges a shower of nectar.

[1000]

CLASS XV. TETRADYNAMIA.

ORDER I. SILICULOSA.

A. *Silicle not notched at the end.*

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| 1258. DRABA. | <i>Silicle</i> with flattish valves parallel with the partition. |
| 1268. LUNARIA. | <i>Silicle</i> pedicelled, with flat valves parallel with the partition, crowned with the style. |
| 1257. SUBULARIA. | <i>Silicle</i> with ovate concave valves, contrary to the partition. |
| 1255. VELLA. | <i>Silicle</i> with the partition as long again as the valves. |
| 1249. MYAGRUM. | <i>Silicle</i> inversely heart-shaped, with concave valves; the cells commonly 1-seeded. |
| 1254. ISATIS. | <i>Silicle</i> 1-seeded, with the valves carinate. |
| 1252. CAKILE. | <i>Silicle</i> somewhat 4-sided, with 2 of the angles carinate, without valves; the cells 1-seeded. |
| 1251. PUGIONIUM. | <i>Silicle</i> transversal, beaked at each end, without valves, 1-seeded. |
| 1250. BUNIAS. | <i>Silicle</i> 4-sided, without valves, 2 or 4-celled, wrinkled. |
| 1253. CRAMBE. | <i>Silicle</i> globular, 1-celled, 1-seeded, without valves. |

B. *Silicle notched at the end.*

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|-------------------|---|
| 1263. IBERIS. | Two of the <i>petals</i> larger. |
| 1264. ALYSSUM. | <i>Silicle</i> margined, with concave valves parallel with the partition. |
| 1265. CLYPEOLA. | <i>Silicle</i> orbicular, deciduous, with flat valves. |
| 1266. PELTARIA. | <i>Silicle</i> orbicular, compressed and flattish, not opening. |
| 1261. COCHLEARIA. | <i>Silicle</i> turgid, wrinkled, 2-valved, many-seeded. |
| 1262. CORONOPUS. | <i>Silicle</i> compressed, wrinkled, without valves, 2-seeded. |
| 1259. LEPIDIUM. | <i>Silicle</i> with the valves carinate, but not margined. |
| 1260. THASPI. | <i>Silicle</i> inversely heart-shaped, with the valves carinate and margined. |

1267. BISCUTELLA. *Silicle* 2-lobed, carinate at the margin above and below; the cells 1-seeded.
1265. ANASTATICA. *Silicle* retuse, with the valves longer than the mucronate partition.

ORDER II. SILIQUOSA.

A. *Calyx closed by the leaflets meeting longitudinally.*

1281. RAPHANUS. *Silique* round, jointed.
1273. ERYSIMUM. *Silique* square.
1274. CHEIRANTHUS. *Silique* compressed, cloven at top: germ with a glandular tooth each side at the base.
1276. HESPERIS. Glands within the shorter stamens: *petals* oblique.
1277. ARABIS. Glands 4, within the leaflets of the calyx: *stigma* simple.
1279. BRASICA. Glands 2 within the shorter stamens, and 2 without the longer stamens.
1282. CORDYLOCARPUS. *Silique* uneven, jointed, round, with the uppermost joint distinct.
1278. TURRITIS. *Silique* angular: corol erect.
1270. DENTARIA. *Silique* opening elastically, with the valves revolute: *stigma* emarginate.
1269. RICOTIA. *Silique* 1-celled.

B. *Calyx gaping, with the leaflets distant upwards.*

1283. CLEOME. *Silique* opening, 1-celled.
1271. CARDAMINE. *Silique* opening elastically, with the valves revolute: *stigma* entire.
1280. SINAPIS. *Silique* more or less cylindrical, with the partition longer than the valves: *calyx* very much spread.
1272. SISYMERIUM. *Silique* cylindrical, with the partition equaling the valves, and opening with nearly straight valves.
1275. HELIOPHILA. *Silique* cylindrical: *nectaries* 2, recurved towards the inflated base of the calyx.

ORDER I. SILICULOSA.

Seeds contained in a short roundish vessel.

1249. MYAGRUM. *Silicle* inversely heart-shaped, with concave valves, and terminated by a conic style; the cell mostly 1-seeded.

Gold of Pleasure.

perenne. Silicles 2-jointed, 1-seeded: leaves outwardly sinuate, denticulate.

Germany. *Baub. prodr. t. 37. Mapp. Alsat. t. 266.*

Stem branched, diffuse, rough: *leaves* hairy, rough: *flowers* yellow: lower-joints of the *silicle* commonly abortive.

orientale. Silicles grooved, not wrinkled: leaves oblong, tooth-sinuate.

The East. *Silicle* 2-jointed, with 3 clavate ridges.

rugosum. Silicles grooved, hairy, wrinkled: leaves oblong, obtuse, toothed.

South of Europe. *Style* 3 times as long as the *silicle*.

hispanicum. Silicles smooth, a little swelling: leaves lyrate.

Spain. *Stem* rough with a few reflected hairs: *leaves* toothed, oblong: *silicle* not grooved, wrinkled or striate.

perfoliatum. Silicles inversely heart-shaped, nearly sessile: leaves clasping the stem.

France; Switzerland. *Morif. 2. sect. 3. t. 21. f. antepennuli.*

Plant glabrous: 2 upper lateral cells empty.

oblongifolium. Silicles oblong, margined, curled: leaves roundish-heart-shaped, clasping the stem.

The East. *Silicles* with a membranaceous toothed margin; the partition contrary to the valves; cells 1-seeded.

austriacum. Silicles roundish, glabrous: leaves ovate-lanceolate, toothed, very entire at the base, clasping the stem.

Austria. *Jacq. Austr. 2. tab. 111.*

Lower-leaves obovate, upper-ones oblong.

paniculatum. Silicles roundish-globular, reticulate with wrinkles: leaves lanceolate, slightly toothed, arrow-shaped, clasping the stem.

Germany. *Fl. Dav. t. 204. Baub. prodr. t. 52.*

Stem angular, hairy, branched above: *flowers* orange.

saxatile. Silicles roundish-globular, obovate, glabrous: leaves petioled, oblong, sessile, rough: stem panicled.

A'ps. *Jacq. Austr. t. 128. Baub. prodr. t. 49.*

Root-leaves spatulate or lanceolate, entire or slightly toothed;
stem-leaves tongue-shaped or lanceolate: *stem* simple or with
 a few racemes.

egyptium. Silicles angular: leaves 3-parted.

Egypt. *Stem* divaricate: *leaves* petioled, 3 or 5-parted, tooth-
 ed: *silicles* of 2 square joints: *flowers* yellow.

1250. BUNIAS. *Silicle* more or less 4-sided, with-
 out valves, 2 or 4-celled, wrinkled.

spinosa. Racemes becoming spinous.

The East. *Forsk. Egypt. ic. t. 17. f. 1. Alp. exot. t. 200.*

Stems rush-like, smooth: *leaves* ovate-oblong, obtuse, a little
 angular: *racemes* erect: *silicle* heart-shaped, double.

Erucago. Silicles square, slightly toothed: root-leaves runcinate;
 stem-leaves lanceolate.

Austria. *Jacq. Austr. t. 340. Baub prodr. t. 41.*

Branches diffuse: *leaves* glaucous: *flowers* axillary.

aspera. Silicles square, toothed: all the leaves lanceolate.

—— *Retz. obs. 2. p. 21. Willd. sp. pl. 3 p. 411.*

Stem rough: *leaves* rough with forked hairs, very slightly
 toothed: *flowers* racemed, yellow.

orientalis. Silicles ovate, gibbous, warty: lower-leaves runcinate and
 lyrate; upper-ones lanceolate.

Russia. *Gmel. sib. 3. t. 57. Houtt. fyst. 8. t. 60. f. 2.*

*cochleario-
ides*. Silicles ovate, rather obtuse, somewhat wrinkled: root-
 leaves oblong; stem-leaves arrow-shaped, clasping
 the stem.

Europe. *Murr. Comm. Gatt. 8. t. 3? Barr. ic. 1252. 894. f. 2.*

tatarica. Silicles globular, somewhat 6-sided, with long beaks:
 leaves lanceolate, obtuse, petioled.

Siberia. *Pall. it. 3. app. 4. 103. t. U. f. 2.*

Stem erect, branched: *leaves* very entire, bristly: *flowers* white,
 in-filiform racemes: *silicle* 6-grooved.

syriaca. Silicles globular, somewhat 3-sided, rough, with hooked
 beaks: leaves lanceolate, acute, petioled

Syria; Austria. *Jacq. Austr. t. 6. Pall. it. 3. t. Ll. f. 1.*

myagroides. Silicles 2-jointed, 2-edged, uneven in the surface upwards:
 leaves pinnate, with reflected sinuosities.

Siberia. *Leaves* pinnate or doubly pinnate, with oblong tooth-
 ed divisions, not glaucous: *silicle* peduncled.

egyptiaca. Silicles square, every where muricate with warts: leaves
 runcinate.

Egypt. *Jacq. hort. t. 145. Ad. petrop. 12. p. 509. t. 9.*

Stem bristly beneath: *leaves* slightly toothed.

balearica. Silicles bristly: leaves pinnate, with the divisions slightly toothed.

Majorca. *Jacq. hort.* 144. *Gouan. illustr.* 45. t. 20.

Stem much branched, spreading, angular: *silicles* globular, every where armed with soft spines.

prostrata. Silicles 1-seeded, toothed: leaves pinnatifid, with sinuate divisions.

Africa. *Desfont. atl.* 2. p. 76. *tab.* 150.

Stem prostrate: leaves pubescent: flowers white.

1251. PUGIONIUM. *Silicle* transversely oval, terminated each side by a horn, without valves, 2-seeded: *seed* coated.

cornutum. PUGIONIUM.

Bunias cornuta. *Sp. pl.* 935.

Siberia. *Gærtn. sem.* 2. p. 291. t. 142. f. 3. *Willd.* 3. p. 416.

Silicle with 4 spines in the middle directed every way.

1252. CAKILE. *Silicle* lanceolate, somewhat 4-fided, consisting of 2 deciduous joints, without valves, and each containing a single seed; the lower-joint with a tooth each side at the tip.

Sea-rocket.

* *maritima*. Leaves pinnatifid, with linear slightly toothed divisions.

Bunias Cakile. *Sp. pl.* 936. *Smith. With. Huds.*

Sea shores. *Engl. bot.* t. 231. *Fl. Dan.* t. 1168.

Herb fleshy, glaucous: leaves toothed and pinnatifid, alternate, with a rib down the middle: flowers whitish.

ægyptiaca. Leaves obovate, cut-toothed.

Italy; Egypt. Very much resembles the last.

1253. CRAMBE. *Silicle* globular, didymous, without valves, 1-seeded: the 4 longer *filaments* with a tooth near the top. *Sea Kale.*

* *maritima*. Leaves angular, undulate, glaucous, glabrous: stem glabrous.

Sea shores. *Eng. bot.* t. 924. *Flor. Dan.* t. 316.

tatarica. Leaves more than decomposed, cut-toothed, glabrous; stem glabrous.

Hungary; Siberia. *Jacq. ic. rar.* 1. t. 129.

orientalis. Leaves oblong, pinnatifid-runcinate, very rough: stem nearly glabrous.

The East. *Leaflets* pinnatifid, glaucous.

hispanica. Leaves pinnate-lyrate, rough; with the terminal leaflet kidney-form and obtuse: stem roughish.

Spain. *Jacq. obs.* 2. t. 41. *Morif. seil.* 3. t. 13. f. 1.

reniformis. Leaves pinnate-lyrate, hairy; the terminal leaflet kidney-form, acute, deeply toothed: stem glabrous, filiform, branched.

Mount Atlas. *Desfont. atl.* 2. p. 78. t. 151.

Stem rough at bottom: leaves sprinkled with short hairs.

filiformis. Leaves interruptedly pinnate, lyrate, hairy: the terminal leaflet roundish and toothed: stem glabrous, filiform, branched, fastigiate.

Patagonia. *Jacq. ic. rar.* 3. tab. 504.

Stem hairy beneath: leaves clothed with white stiff hairs.

fruticosa. Shrubby: leaves ovate, pinnatifid, ferrate, hoary: racemes forming a diffuse forked panicle.

Madeira. Branches leafy: divisions of the leaves ferrate.

strigosa. Somewhat shrubby: leaves ovate, hearted, toothed, unequal and appendaged at the base: panicle filiform, diffuse.

Canaries. *L'Herit. Airp.* 1. t. 72. *Jacq. ic. rar.* 1. t. 120.

Leaves green both sides, covered with stiff hairs.

1254. ISATIS. Silicle lanceolate, obtuse, deciduous, 1-celled, 1-seeded, with 2 boat-shaped valves.

Wood.

tinctoria. Root-leaves crenate, stem-leaves arrow-shaped: silicles rather obtuse, downy.

2. Root-leaves obtuse, entire. *Blackw.* t. 246.

Fields. *Eng. bot.* t. 97. *Mart. Fl. rust.* t. 41.

lusitanica. Root-leaves crenate; stem-leaves arrow-shaped: silicles a little downy.

Spain; Levant. *Buxb. cent.* 1. p. 4. t. 5.

Root annual: flowers white, less than the last.

armena. Leaves very entire, heart-shaped, obtuse behind: silicles heart-shaped.

Armenia. *Buxb. cent.* 1. t. 3. f. 4.

Stem a foot high, loaded with yellow flowers.

alpina. Leaves very entire, heart-shaped: silicles elliptic.

Mountains of Piedmont. *All. pedem.* n. 944. t. 86. f. 2.

1255. VELLA. Silicle with the partition twice as large as the valves, ovate outwardly.

Cress-rocket.

annua. Leaves pinnatifid: silicles pendulous.

Sandy fields. *Pet. H. Brit.* t. 50. f. 5. *Trew. ic.* 10. t. 8.

*Pseudo-
Cytisus.*

Leaves entire, obovate, ciliate: filicles erect.

Spain. *Cavan. ic. 1. p. 32. tab. 42.*

Plant shrubby: leaves entire, sessile, hairy.

1256. ANASTATICA. *Silicle* retuse, crowned at the edge with valves twice as long as the partition, and a mucronate oblique style in the middle; the cells 2-seeded.

*hierochun-
tica.*

ANASTATICA.

Rose of Jericho.

Palestine. *Jacq. hort. t. 50. Moris. 2. sect. 5. t. 25. f. 2, 3.*

Leaves obtuse, fleshy, glaucous: spikes axillary, very short: flowers small, white: filicles hoof-shaped, prickly.

1257. SUBULARIA. *Silicle* entire, ovate, with ovate concave valves contrary to the partition: style shorter than the filicle. *Awl-wort.*

** aquatica.*

Plant stemless: leaves subulate.

Alpine lakes. *Eng. bot. t. 732. Moris. sect. 8. t. 10. f. ult.*

alpina.

Stem branched: leaves obovate.

Carniola. *Scop. Carn. n. 789. t. 34. Draba mollis.*

Leaves soft, fleshy, glabrous; those of the stem oblong and sessile: flowers racemed, white.

1258. DRABA. *Silicle* entire, oval-oblong, with flattish valves parallel to the partition: style generally none. *Whitlow-grass.*

A. Stem leafless.

** aizoides.*

Leaves lance-ensiform, carinate, rigid, ciliate round the margin: petals twice as long as the calyx.

Found by the Author, 1801, on the maritime rocks of Gower.

Curt. mag. t. 170. Jacq. Austr. 2. t. 192. Moris. sect. 3. t. 10. f. 6.

Root perennial, branched, fibrous: leaves imbricate, pale green, becoming yellowish in decay, spinous, rigid like those of the Aloe, fringed with white simple hairs round the margin but not on the keel, narrower towards the base: stalk quite simple, glabrous, a little flexuous: flowers yellow, in a terminal raceme: petals rounded, emarginate, twice as long as the calyx: silicle elliptic, glabrous, crowned with a style half its own length.

rigida.

Leaves lance-ensiform, carinate, rigid, very entire, slightly ciliate round the margin: petals as long as the calyx.

Armenia. *Willd. 3. p. 425.* Leaves not ciliate on the keel.

ciliaris.

Stem mostly naked: leaves linear, ciliate on the margin and keel: petals entire.

Provence. *Ger. prov.* 344. t. 13. f. 1.

Flowers white: style longer than the stamina.

- alpina*. Leaves lanceolate, very entire, not ciliate.
European Alps. *Flor. Dan.* t. 56. Petals emarginate.
- bispida*. Leaves obovate, slightly toothed, sessile, rough with forked hairs: petals entire: style very short.
Cappadocia. *Willd.* 3. p. 426. Flowers yellow.
- verna*. Leaves lanceolate, slightly serrate, hairy: petals cloven: stigma sessile.
Walls. *Eng. bot.* t. 586. *Curt. Lond.* f. 1. t. 49. *Fl. Dan.* t. 983.
- caroliniana*. Scape simple, smooth: leaves ovate, hairy.
Carolina. *Walt. Carol.* 174. Hardly distinct from the last.
- nivalis*. Leaves lanceolate, very entire, somewhat pubescent, ciliate: scape 1-leaved, decumbent: petals reflex.
Alps. *Ad. Ups.* 6. t. 2. f. 2. *Flor. Dan.* t. 142.
Scape naked, or furnished with a leaf or two.
- stellata*. Leaves oblong, rather obtuse, very entire or toothed, hoary, pubescent: scape with sometimes a single leaf, erect.
Alps. *Jacq. obs.* t. 4. f. 3. *Austr.* t. 432. *Crantz. Austr.* t. 1. f. 4.
Leaves hoary, and thickly clothed with stellate hairs.
- androsacea*. Leaves oblong, obtuse, rigid, crenate, ciliate-toothed at the margin: scapes 3-leaved.
Carniola. *Scop. Carn.* t. 33. *Wulf. Jacq. misc.* 1. t. 17. f. 1.
Leaves obtuse, carinate, with 2 or 3 long hairs on the keel underneath: petals white, twice as long as the calyx.
- pyrenaica*. Scape naked: leaves wedge-form, palmate, 3-lobed.
Pyrenees. *Jacq. Austr.* t. 228. *All. ped. n.* 894. t. 8. f. 1.

B. Stem leafy.

- muralis*. Stem branched: leaves ovate, hearted, toothed, the upper ones clasping the stem: silicles spreading, glabrous.
Shades. *Eng. bot.* t. 912. *Column. ecphr.* t. 272.
- nemorialis*. Stem branched: leaves ovate, hearted, toothed, the upper ones clasping the stem: silicles spreading, pubescent.
Sweden; Russia. *Houtt. fist.* 8. t. 60. f. 1.
Receptacle supporting the raceme, glabrous: corol yellow.
- hirta*. Scape with a single leaf near the base: leaves oblong, acute, toothed, ciliate, with simple hairs: petals entire.
Alpine rocks. *Flor. Dan.* t. 143.
- incana*. Stem with numerous irregularly cut hoary leaves clothed with stellate hairs: petals emarginate.
Alpine rocks. *Eng. bot.* t. 388. *Fl. Dan.* t. 130.
Silicles oblong, obliquely twisted, nearly sessile.
- magellanica*. Stem-leaves villous, somewhat hoary, distant, lanceolate, entire: silicles oblong, not obliquely twisted.

Straits of Magellan. *Lamarck. encycl.* 2. p. 325.

Root-leaves linear-lanceolate, entire, whitish.

1259. **LEPIDIUM.** *Silicle* emarginate, elliptic, the valves carinate but not margined, contrary to the partition. *Pepper-wort.*

perfoliatum. Stem-leaves pinnate and many-cleft; those supporting the branches heart-shaped, clasping the stem, entire.

Austria; Persia. *Jacq. Austr.* t. 346. *Moris. f. a.* 3. t. 25. f. 17.

Leaves glaucous: *flowers* yellow, in spiked corymbs.

vescicarium Leaves pinnate, with linear leaflets: stem with inflated joints.

Iberia; Media. *Buxb. cent.* 1 p. 17. t. 26.

Silicles small, pointed: *flowers* white.

nudicaule. Stem naked, quite simple: flowers tetrandrous: leaves pinnatifid.

Montpellier: Spain. *Magn. monsp.* t. 186.

Leaves linear, pinnatifid or toothed at top.

procumbens. Stem branched at the base, branches ascending: lower-leaves pinnatifid; upper-ones lanceolate, undivided: petals as long as the calyx.

Montpellier; Spain. *Magn. monsp.* t. 184.

Leaves some ovate, entire; some 3 or 5-lobed or lyrate.

alpinum. Leaves pinnate, with entire segments, glabrous: flowering stem naked, ascending: petals longer than the calyx: silicles lanceolate, mucronate.

Alps. *Jacq. Austr.* t. 137. *Flor. Dan.* t. 569.

calycinum. Leaves pinnate, with entire segments, villous: flowering stem leafy, erect: petals longer than the permanent calyx; silicles mucronate.

Altaic Alps. *Willd. sp. pl.* 3. p. 433.

Calyx remaining in fruit, with nerved coloured leaflets.

* *petræum.* Leaves pinnatifid, with entire segments, glabrous: petals shorter than the calyx: silicles elliptic-oblong.

Alpine rocks. *Eng. bot.* t. 111. *Jacq. Austr.* t. 131.

Cardamines Root-leaves pinnate; stem-leaves lyrate.

Spain. *Arduin. spec.* t. 18. *Act. Stockh.* 1775. t. 8. f. 9.

spinozum. Leaves pinnate with lunate leaflets, the outer-ones elongated: branches mucronate at the end.

The East. *Arduin. spec.* 2. p. 34. t. 16.

Petals white, twice as long as the calyx.

sativum. Leaves oblong, many-cleft, glabrous. *Garden-Cress.*

2. With curled leaves. *Baub. prodr.* t. 43.

Germany. *Blackw.* t. 23. *Ludw. ed.* t. 166.

Stem erect, glabrous, branched: *leaves* alternate.

- lyratum*. Leaves lyrate, curled.
The East. *Tourn. It. t. 339*. Flowers white.
- crassifolium*. Leaves undivided, very entire; the radical-ones petioled, ovate; those of the stem sessile, lanceolate and arrow-shaped.
Hungary. *Walst. et Kitaib. pl. Hung. 1. t. 4*.
Leaves thick, glabrous: flowers white.
- *latifolium*. Leaves ovate-lanceolate, undivided, serrate.
Moist shades. *Eng. bot. t. 182. Blackw. t. 448*.
- amplexicaule*. Leaves undivided, oblong-lanceolate, arrow-shaped, sessile, toothed at top: silicles roundish, crowned with the style.
Siberia. *Willd. sp. pl. 3. p. 436. n. 14*.
- glaberrimum*. Leaves undivided, obsoletely toothed at the base; radical-ones oblong, petioled; those of the stem arrow-shaped and sessile: silicles obovate, crowned with the style.
Algeira. *Desfont. atl. 2. p. 66. t. 147*.
Branches pubescent: flowers white.
- oleraceum*. Leaves elliptic-oblong, acute, serrate: flowers with 4 stamina.
New Zealand. *Montin. nov. Act. A. N. C. 6. t. 5. f. a*.
Leaves deeply serrate, glabrous: flowers white.
- piscidium*. Leaves elliptic-oblong, acute, very entire: flowers tetradynamous.
South Sea Islands. *Forst. prodr. n. 249*.
Flowers white, with 6 small glands between the stamina.
- subulatum*. Leaves undivided, subulate, scattered: stem somewhat shrubby.
Spain. *D'Affo Arrag. n. 586. t. 6 f. 3*.
Stems simple, somewhat downy: leaves acute, flat above, semi-cylindrical underneath: flowers white.
- graminifolium*. Leaves linear; the upper-ones very entire: stem panicled, wand-like: flowers tetradynamous.
South of Europe. *Flowers small, white*.
- apetalum*. Leaves lance-linear, very entire: flowers without petals: stem procumbent.
Siberia. *Willd. sp. pl. 3. p. 439. n. 20*.
Leaves alternate, sessile, glabrous, very entire.
- suffruticosum*. Leaves lance-linear, thin, very entire: stems somewhat shrubby.
Spain. *Cavan. ic. 2. p. 41. t. 151. f. 2*. *L. graminifolium*.
Leaves not fleshy, often several together: corol white.

- * *rudérale*. Flowers with 2 stamina and without petals: lower-leaves pinnatifid and toothed; upper-ones linear and very entire.
Wastes near the sea. *Fl. Dan. t. 184. Pet. H. Brit. t. 50. f. 1.*
Petals rarely seen: *stamina* sometimes 4, rarely 6.
- virginicum*. Flowers with 3 or 4 stamina and 4 petals: leaves linear, pinnate.
Virginia; Jamaica. *Sloane Jam. 1. t. 123. f. 3. Moris. t. 21. f. 2.*
- divaricatum*. Leaves pinnatifid: stem very much branched: silicle ovate, slightly emarginate.
The Cape. *Aiton Kew. 2. p. 375.*
- Iberis*. Flowers with 2 stamina and 4 petals: lower-leaves lanceolate, ferrate; upper-ones linear, very entire.
Europe. *Blackw. t. 312.* Flowers often tetradynamous.
Leaves slightly pubescent: *silicles* ovate, acute.
- Pollicii*. Lower-leaves broad lanceolate, ferrate; upper-ones linear, with rarely a tooth or two: silicles orbicular, emarginate.
Germany. *Moris. sect. 3. tab. 21. f. 3.*
Stem glabrous: *petals* hardly larger than the calyx.
- bonariense*. Flowers with 2 stamina and 4 petals: all the leaves pinnate in many segments.
Brasil. *Dill. elib. t. 286. f. 370.* *Thlaspi bonariense*.
- chalepense*. Leaves arrow-shaped, sessile, toothed.
The East. *Flowers* in loose bunches, small, white.

1260. *THLASPI*. *Silicle* emarginate, inversely heart-shaped, many-seeded; the valves boat-shaped, carinate and margined. *Shepherd's-purse*.

- peregrinum*. Silicles nearly orbicular: leaves lanceolate, entire.
Germany. *Moris. hist. 2. sect. 3. t. 18. f. 30.*
- arabicum*. Silicles oval, crowned with the style: lower-leaves wedge-shaped; upper-ones hearted, oblong, clasping the stem.
Arabia. *Buxb. cent. 1. t. 2. f. 1.* Iberis. *Sp. pl. 906.*
- * *arvense*. Silicles orbicular, compressed, smooth: leaves oblong, toothed, glabrous.
Fields. *Curt. Lond. fasc. 6. t. 43. Fl. Dan. t. 793. Blackw. 68.*
- alliaceum*. Silicles somewhat ovate, swelling: leaves oblong, obtuse, toothed, glabrous.
South of Europe. *Jacq. ic. rar. t. 121. Moris. f. 3. t. 18. f. 28.*
Silicles ovate, inflated, with a less margin than the last.
- Psychine*. Silicles obovate-deltoid, crowned with the style: leaves lanceolate, hearted, toothed, clasping the stem, pubescent.

Barbary. *Desfont. atl. 2. p. 69. tab. 141.*

Stem branched, covered with white hairs: flowers yellow.

saxatile. Silicles roundish: leaves lance-linear, obtuse, fleshy.

Italy; Austria. *Jacq. Austr. t. 236. Barr. ic. 845.*

Stem glabrous: leaves sessile, glabrous, very entire: flowers purplish: silicles recurved, surrounded with a broad pellucid slightly crenate margin.

* *campestre.* Silicles roundish, with glandular dots, margined above: leaves arrow-shaped, toothed, hoary.

Corn fields. *Curt. Lond. fasc. 5. t. 45. Blackw. t. 407.*

* *hirtum.* Silicles elliptic-oblong, hairy, without glandular dots, margined above: stem-leaves arrow-shaped, villous.

Welsh mountains. *Pet. H. Brit. tab. 50. f. 10.*

montanum. Silicles inversely heart-shaped: leaves glabrous; the radical-ones somewhat fleshy, obovate, very entire; those of the stem oblong, clasping, somewhat arrow-shaped: corols longer than the calyx:

Europe. *Jacq. Austr. t. 237. 2) Wulf. Jacq. coll. t. 9.*

alpinum. Silicles inversely heart-shaped: stem-leaves heart-shaped, glabrous, very entire: petals twice as long as the calyx: stem simple.

Austria; Switzerland. *Jacq. Austr. 3. t. 238.*

* *perfoliatum.* Silicles inversely heart-shaped: stem-leaves heart-arrow-shaped, glabrous, slightly toothed: petals as long as the calyx: stem branched: style very short.

Rocky pastures. *Jacq. Austr. 3. t. 237. Pet. H. Brit. t. 50. f. 12.*

* *alpestre.* Silicles inversely heart-shaped: leaves slightly toothed; those of the stem arrow-shaped: petals as long as the calyx: stem simple: style projecting.

Mountainous pastures. *Eng. bot. t. 81. Arduin. 2. t. 15. f. 2.*

* *Bursa Pastoris.* Silicles inversely heart-shaped, scarcely margined: stem-leaves oblong; root-leaves pinnatifid.

Wastes. *Curt. Lond. fasc. 1. t. 50. Blackw. t. 5. Fl. Dan. t. 729.*

Plant hairy: stem and all the leaves sometimes simple.

Ceratocarpon. Plant quite glabrous: silicles 2-lobed: leaves arrow-shaped, lanceolate, slightly serrate.

Siberia. *Pall. it. 2. p. 740. t. U. Lepidium.*

1261. COCHLEARIA. Silicle turgid, rugged, many-seeded; with gibbous obtuse valves.

Scurvy-grass.

* *officinalis.* Root-leaves heart-roundish, petioled; stem-leaves oblong, somewhat sinuate, sessile: silicles globular.

Muddy shores. *Eng. bot. t. 551. Woodv. t. 29. Blackw. t. 227.*

- * *anglica*. Root-leaves ovate, entire, petioled; stem-leaves lanceolate, toothed, sessile: silicles reticulate with veins.
Muddy shores. *Eng. bot. t. 552. Fl. Dan. t. 329.*
- * *danica*. All the leaves petioled, deltoid, with 3 or 5 lobes: silicles elliptic, reticulate with veins.
Muddy shores. *Eng. bot. t. 696. Fl. Dan. t. 100.*
- grœnlandica*. Leaves kidney-form, fleshy, very entire.
Greenland; Norway. *Barth. Atl. 3. p. 143. t. 144.*
Root-leaves minute, on long petioles, very entire, convex.
- sibirica*. Leaves heart-shaped, deeply toothed,
Siberia. *Willd. sp. pl. 3. p. 450. n. 5.*
Stem erect, glabrous, striate, simple: leaves on long stalks, obtuse; silicles lanceolate, 1 or 2-seeded.
- acaulis*. Leaves hearted, kidney-form: scapes filiform, simple, 1-flowered.
Morocco; Portugal. *Desfont. atl. 2. p. 69. Willd. 3. p. 450.*
Plant stemless, tufted: leaves petioled, somewhat fleshy, glabrous; scapes radical, 1-flowered: silicle inflated.
- * *Armorica*. Root-leaves lanceolate, crenate; stem-leaves cut and entire.
Harfe-radish.
Wet places. *Woodv. t. 150. Blackw. t. 415.*
- macrocarpa*. Root-leaves heart-ovate, crenate; stem-leaves lanceolate, with cartilaginous teeth: silicles elliptic, inflated.
Hungary. *Waldst. pl. Hung. Willd. 3. p. 451.*
- glastifolia*. Stem-leaves inversely hearted and arrow-shaped, clasping the stem.
Germany. *Moris. 2. p. 312. sect. 3. t. 21. f. 3. Lepidium.*
- Draba*. Leaves lanceolate, toothed, clasping the stem.
South of Europe. *Jacq. Austr. t. 315. Moris. f. 3. t. 21. f. 1.*
Stems prostrate: leaves hoary: silicle entire, acute.

1262. CORONOPUS. Silicle kidney-form, compressed, wrinkled; the cells valveless, 1-seeded.
Wart-cress.

- * *Ruellii*. Silicles entire, crested and muricate: style projecting: corymbs few-flowered.
Cochlearia Coronopus. *Sp. pl. 904. Hudf. With. Relb.*
Wastes. *Blackw. t. 120. Fl. Dan. t. 202. Mart. rust. t. 92.*
- * *didyma*. Silicles emarginate, double, reticulate with wrinkles: style obsolete: corymbs many-flowered.
Lepidium didymum. *Mant. 92. With. Eng. bot. t. 248.*
Stems procumbent: leaves pinnatifid, toothed.

1263. IBERIS. Corol irregular; the 2 outer petals larger: *filicle* compressed, emarginate.

Candy-tuft.

- semperflorens.* Shrubby: leaves spatulate, obtuse, very entire, glabrous, Sicily; Persia. *Bocc. sic. t. 22. f. a. 1. Riv. tetrap. 224. f. 2.*
- cappadocica* Shrubby: leaves with stiff hairs; the lower-ones spatulate, upper-ones linear, acute. Cappadocia. *Willd. sp. pl. 3. p. 452. Tourn. Cor. 15.* All the *leaves* clothed with long appressed hairs.
- sempervirens.* Shrubby: leaves linear, very entire, rather acute; corymbs racemed. Italy; Crete. *Allion. pedem. t. 40. f. 3. t. 54. f. 2.*
- gibraltarica* Shrubby: leaves wedge-form, obtuse, toothed at top, glabrous. Gibraltar. *Curt. mag. t. 124. Dill. elth. t. 287. f. 371.*
- saxatilis.* Shrubby: leaves pubescent, acute, very entire; the lower ones linear, upper-ones lanceolate. Italy. *Garid. Aix. t. 101. Cal. ecphr. 1. t. 277. f. 1.*
- vermiculata* Herbaceous: stem ascending: leaves linear, acute, somewhat fleshy, glabrous, ciliate-toothed at the edge. The East. *Willd. sp. pl. 3. t. 454. n. 6.* Stems thickly covered with leaves: *leaves* convex underneath, ciliate round the margin with subulate teeth.
- rotundifolia* Herbaceous: leaves somewhat fleshy, obtuse; lower-ones petioled, roundish-ovate; upper-ones oblong, clasping the stem. South of Europe. *Ard spec. 2. t. 15. f. 1. All. ped. t. 55. f. 2.* Stem creeping: *leaves* glabrous: *flowers* nearly regular.
- cepeæfolia.* Herbaceous: leaves somewhat fleshy, wedge-form, acute, toothed at top. Carinthia. *Wulf. in Jacq. misc. 2. p. 28. t. 1.*
- carnosa.* Herbaceous: leaves spatulate, very entire, obtuse, somewhat fleshy. Pyrenees. *Willd. sp. pl. 3. p. 455. n. 9.* Stems ascending, glabrous; *flowers* corymbed, white.
- ciliata.* Herbaceous: leaves somewhat fleshy, ciliate; the radical-ones spatulate, those of the stem linear. Mount Caucasus. *Willd. sp. pl. 3. p. 455. n. 10.* Stems simple, ascending: *flowers* purplish, corymbed.
- parviflora.* Herbaceous: stem low, panicled, diffuse: leaves somewhat lanceolate, obtuse, rarely toothed. The East. *Lamarck. encycl. 3. p. 212.* Stem much branched, diffuse: *branches* angular: *leaves* oblong-lanceolate, with a few unequal teeth: *flowers* purplish.

- nana.* Herbaceous: leaves roundish-spatulate, slightly toothed at top, glabrous.
Piedmont. *Allion. auct. fl. pedem. p. 15. n. 920. t. 2. f. 1.*
- umbellata.* Herbaceous: leaves lanceolate, pointed; the lower-ones ferrate, upper-ones very entire.
Spain; Crete. *Curt. mag. tab. 106.*
Flowers purple, in an hemispherical umbel.
- * amara.* Herbaceous: leaves lanceolate, acute, slightly toothed: flowers racemed.
Cultivate fields. *Eng. bot. t. 52. Riv. tetrap. t. 108.*
- linifolia.* Herbaceous: leaves linear, very entire; those on the stem ferrate: stem paniced: corymbs hemispherical.
South of Europe. *Garid. Aix. 459 t. 105.* Thlaspi.
Silicles ovate, with a truncate 2-toothed top.
- odorata.* Herbaceous: leaves linear, dilated and ferrate at top.
Alps. *Flowers* small, odorous.
- * nudicaulis.* Herbaceous: leaves lyrate, ciliate round the edge: stems simple; the lateral-ones with a leaf or two.
Corn fields. *Eng. bot. t. 327. Curt. Lond. fasc. 6. t. 42.*
- pinnata.* Herbaceous: leaves pinnatifid.
South of Europe. *Lob. ic. 218.* Thlaspi.
Flowers corymbd: *calyx* reddish: *petals* white.

1264. ALYSSUM. *Silicle* slightly emarginate, margined, crowned with the style; the valves concave and parallel with the partition: 2 of the *filaments* generally marked with a small tooth. *Madwort.*

A. Stem somewhat shrubby.

- spinosum.* Flowering branches spinous, permanent: leaves linear-lanceolate, obtuse, silky.
Spain; France. *Lob. ic. 217. Barr. ic. 808.*
Petals white, entire: *filaments* toothless.
- maritimum.* Stems procumbent: leaves linear-lanceolate, acute, somewhat hoary: filaments simple: silicles roundish, entire.
Clypeola maritima. *Mant. 426. A. halimifolium.* *Curt. mag. 101.*
South of Europe. *Barr. ic. 844.* Thlaspi.
Leaves whitish, not rigid: *petals* entire.
- halimifolium.* Stems procumbent: leaves wedge-lanceolate, obtuse, hoary underneath: filaments simple: obovate.
South of Europe. *Allion. ped. t. 54. f. 1. t. 87. f. 1. Herm. 595.*
Leaves white underneath, with thick stellate hairs.

- saxatile.* Stems panicled: leaves lanceolate, very soft, repand.
Crete. *Curt. mag. t. 159. Ard. spec. 2. p. 18. t. 7.*
Stem branched: petals entire, yellow.
- lunarioides.* Stems ascending: leaves lance-spatulate, petioled, downy: filicles elliptic, compressed.
Archiepelago. *Tourn. it. ed. Germ. 1. t. 30. Lunaria.*
Leaves very downy: flowers yellow.
- argenteum.* Stems erect: leaves spatulate-oblong, hoary underneath: racemes panicled: filicles ovate, hoary.
Piedmont. *Allion. ped. n. 901. t. 54. f. 3. Lunaria.*
Plant clothed with stellate hairs: leaves obtuse.
- alpestre.* Stems ascending: leaves roundish-spatulate, hoary: racemes corymbed.
Alps. *Ger. prov. t. 13. f. 2. 2) Waldst. pl. Hung. 1. t. 6.*
Leaves very obtuse: stamina appendaged at the base.
- serpyllifolium.* Stems erect: leaves hoary; the lower-ones obovate, upper-ones lanceolate: racemes corymbed, crowded.
Armenia. *Desfont. atl. 2. p. 70. Tourn. Cor. 15.*
- atlanticum.* Stems erect: leaves hoary, lanceolate: racemes simple: filicles convex.
Mount Atlas. *Desfont. atl. 2. p. 71. t. 149.*
- orientale.* Stems panicled: filicles inversely heart-shaped, compressed, 2-seeded.
The East. *Ard. spec. 2. p. 32. t. 15. f. 1.*
Stems diffuse: leaves hoary; the lower-ones ovate-oblong, sinuate; upper-ones sessile, linear-lanceolate.

B. Stems herbaceous.

- tenuifolium.* Stems erect: leaves linear, pointed, villous: stamina simple.
Siberia. *Wild. 3. p. 460. Leaves crowded, sessile.*
- hyperboreum.* Leaves hoary, toothed: 4 of the stamina forked.
America. *Kraschen. act. petrop. 1747. t. 15. f. 1. Lunaria.*
The 2 shorter stamina marked with an acute claw; the other 4 with an emarginate scale at the base.
- incanum.* Stem erect: leaves lanceolate, hoary, very entire: flowers corymbed: petals cloven.
North of Europe. Stem rough, hoary: leaves sessile, roughish: flowers white: filicles oval, hoary.
- sativum.* Stem erect: leaves lanceolate, clasping the stem, hairy, entire: petals entire.
Myagrum sativum. *Sp. pl. 894. Hudf.*
Corn fields. *Fl. Dan. t. 1038. Cavan. ic. 1. t. 66.*
- dentatum.* Stem erect: leaves lanceolate, clasping the stem, glabrous, toothed: petals entire.

Myagrum dentatum. Willd. 3. p. 408.

South of Europe. Lind. *Alsat.* 49. t. 1.

Root-leaves runcinate, petioled, mostly glabrous.

- minimum*. Stems diffuse: leaves linear-lanceolate, downy: all the stamina toothed: silicles quite glabrous, orbicular.
Spain. Petals yellow, slightly emarginate.
- strictum*. Stems ascending: leaves linear-lanceolate, downy: silicles downy, ovate, appressed.
Armenia. Raceme terminal, stiff: silicles entire.
- calycinum*. Stem erect: all the stamina toothed: calyx permanent.
South of Europe. Jacq. *Austr.* t. 338. *Camer. epit.* 558. f. 1.
- sibiricum*. Stems ascending, branched above: leaves obovate; silicles somewhat orbicular, entire, hoary.
Siberia. Willd. 3. p. 465. Petals entire, yellowish.
- spatulatum*. Stems erect: leaves downy; the radical-ones orbicular, spatulate, those on the stem lanceolate.
Siberia. Willd. 3. p. 465. Silicles orbicular, glabrous, entire.
- montanum*. Stems diffuse: leaves hoary; the lower-ones elliptic, acute; upper-ones somewhat lanceolate: raceme simple.
Germany. Jacq. *Austr.* t. 37. *Barr. ic.* 807.
Petals yellow: 4 stamina cloven, 2 denticulate at the base.
- tortuosum*. Stems diffuse and twisted: leaves hoary, somewhat lanceolate: racemes terminal, corymbed.
Hungary; Siberia. Willd. 3. p. 866.
Petals nearly entire; stamina not toothed.
- campestre*. Two of the stamina with a bristle each side at the base from the receptacle: calyx deciduous.
South of Europe. Leaves oblong, obtuse, hoary: flowers yellow: 4 of the filaments denticulate in the middle.
- linifolium*. Stem erect, branched, divaricate: leaves linear, hoary: silicles obovate, entire, glabrous.
Armenia. Willd. 3. p. 467.
Four of the filaments toothed in the middle; 2 with a setaceous scale from the germ: silicles glabrous, entire, flat.
- elypeatum*. Stem erect: leaves oblong, downy, slightly toothed: silicles oblong, compressed, flat: stigma capitate: petals pointed, linear.
South of Europe. Filaments toothed in the middle.
- cheiranthifolium*. Stem erect: leaves lanceolate, hairy, very entire: silicles oblong, compressed flat: stigma cloven: petals spatulate-linear.
The East. Willd. 3. p. 468. Petals longer than the calyx.

C. *Silicles inflated, or calyx oblong, closed.*

- sinuatum.* Stem herbaceous: leaves lance-deltoid: silicles inflated.
Spain. *Morif. hist.* 2. sect. 3. t. 9. f. 6.
Petals cloven: lateral filaments obsoletely toothed.
- creticum.* Stem shrubby: leaves lanceolate, slightly toothed, downy: silicles inflated, globular.
Spain; Crete. *Alp. exot.* 117. t. 118. Leucoium.
- gemonense.* Stem herbaceous, with divaricate branches: root-leaves obovate, somewhat downy: silicles inflated.
Alps. *Jacq. ic. rar.* 3. t. 503. *Arduin. spec.* 2. t. 14.
Flowers deep yellow, on white downy peduncles.
- dasycarpum.* Stem erect, branched: leaves oblong, acute at both ends: silicles globular, villous: calyx permanent.
Siberia. *Willd.* 3. p. 469. *Flowers* small, yellowish.
- utriculatum.* Stem herbaceous, erect: leaves smooth, lanceolate, very entire: silicles inflated.
The East. *Curt. mag. tab.* 130.
Root-leaves hairy: *flowers* large, yellow.
- vesicaria.* Stem herbaceous, prostrate: leaves linear, toothed: silicles inflated, angular, toothed.
The East. *Fourn. it.* 2. p. 97. t. 14. bad.
- deltoidum.* Stems somewhat shrubby, prostrate: leaves lance-deltoid, toothed: silicles inflated, hairy.
The East. *Curt. mag. tab.* 126.
Stems hairy, flexuous: *leaves* green with a few hairs, and a tooth or two each side: *flowers* violet: *calyx* dotted.

1265. CLYPEOLA. *Silicle* emarginate, orbicular, compressed flat, deciduous, divisible into 2 parts, 1-celled, 1-seeded.

- Jonthlaspi.* CLYPEOLA. *Treacle-Mustard.*
Spain; Italy. *Cavan. ic.* 1. t. 34. f. 2. *Col. ecphr.* 1. t. 284.
Herb hairy: *leaves* spatulate, sessile, glaucous: *flowers* yellow: *lamina* with each a tooth above the base.

1266. PELTARIA. *Silicle* entire, somewhat orbicular, compressed flat, not opening, 1 or 3-seeded.

- alliacea.* Leaves clasping the stem, oblong, undivided.
Alps. *Jacq. Austr.* t. 123. *Crantz Austr.* t. 1. f. 1.
Stem erect, branched: *leaves* heart-shaped: *flowers* white.
- Garcini.* Leaves petioled, elliptic: silicles 1-celled, compressed.
Persia. *Burm. Ind.* 139 tab. 46. f. 1.
Stems glabrous, whitish: *leaves* entire, glabrous.

capensis. Stem-leaves pinnate in 5 linear somewhat fleshy divisions.
The Cape. Stem erect: petals white, slightly emarginate.

1267. **BISCUTELLA.** *Silicle* compressed flat, rounded, 2-lobed above and below; the cells 1-seeded: leaflets of the *calyx* gibbous at the base. *Buckler-Mustard.*

auriculata. Calyx gibbous with the nectary each side: silicles running into the style.

Italy; France. *Col. ecphr.* 2. p. 59. t. 61. *Leucoium.*

Leaves oblong, entire, a little indented: flowers yellow.

apula. Silicles rough: leaves lanceolate, sessile, ferrate.

Italy. *Col. ecphr.* 1. t. 284. f. 1. *Jondraba.*

Plant hairy: stem erect, with 2 or 3 branches.

lyrata. Silicles rough at the edge: stem nearly naked: leaves lyrate.

Spain; Africa. *Silicles* small, roughish, orbicular.

raphanifolia. Silicles glabrous: leaves lyrate.

Africa; Sicily. *Bocc. sic.* 45. t. 23. *Thlaspi.*

coronopifolia. Silicles glabrous, ciliate at the edge: leaves toothed, hairy.

Spain; Italy. Root-leaves lanceolate, deeply toothed; stem-leaves clasping, not so deeply toothed.

lævigata. Silicles glabrous: leaves lanceolate, ferrate.

Europe. *Jacq. Eufr.* 4. t. 339. *Col. ecphr.* 1. t. 285. f. 2.

Silicles edged with a thin pellucid glabrous membrane.

subspatulata. Silicles glabrous: leaves linear-spatulate, entire.

Mountains of Italy. *Barr. ic.* 254.

montana. Silicles glabrous: leaves ovate, toothed, downy.

Spain. *Cavan. ic.* 2. p. 59. tab. 177.

Stem-leaves oblong, clasping, slightly toothed.

semper-virens. Silicles roughish: leaves lanceolate, ferrate, downy.

Spain. *Barr. ic.* t. 841. *Bocc. mus.* t. 122. *Thlaspi.*

Stems suffruticose, prostrate, simple, leafy at top: leaves crowded, hoary, reflected at the edge.

peruviana. Silicles glabrous, winged: leaves coriaceous, ovate, ferrate: stem shrubby.

Peru. *Willd.* 3. p. 476. Plant glabrous: panicle terminal.

1268. **LUNARIA.** *Silicle* entire, elliptic, compressed flat, pedicelled; the valves flat, equalling and parallel to the partition: *calyx* with 2 of the leaflets pouched at the base. *Honesty.*

rediviva. Leaves with mucronate teeth: silicles oblong, tapering to both ends.

Europe. *Morif. sect. 3. t. 9. f. 3.* Leucoium.

Stem striate, hairy: *leaves* heart-shaped, pointed, deeply toothed: *flowers* odorous, violet.

Leaves obtusely toothed: *silicles* roundish, obtuse at both ends.

Germany. *Morif. sect. 3. t. 9. f. 1.* Leucoium.

Leaves mostly opposite: *flowers* inodorous: *root* biennial.

ORDER II. SILIQUOSA.

Seeds contained in a very long vessel.

1269. RICOTIA. *Siliqua* 1-celled, oblong, compressed, with flat valves.

egyptiaca. RICOTIA.

Egypt. *Miller fig. tab. 169.* Lunaria.

Herb branching: *leaves* unequally pinnate, glabrous, lucid: *flowers* purple: *siliques* pendulous.

1270. DENTARIA. *Siliqua* bursting elastically, with the valves revolute and shorter than the partition: *stigma* notched at the end: *calyx-leaves* meeting longitudinally. *Tooth-wort.*

enneaphylla. *Leaves* in three times three, toothed, without a gland at the axils of the leaflets: *stamina* as long as the corol.

Austria; Italy. *Jacq. Austr. t. 316. Col. ecpr. 1. t. 307.*

Root white, toothed: *leaves* whorled; leaflets glabrous, ovate-lanceolate, doubly ferrate: *flowers* reddish.

glandulosa. *Leaves* in three times three, deeply toothed, with a subulate gland in the axils of the leaflets: *stamina* half as long as the corol.

Hungary. *Willd. sp. pl. 3. p. 478. n. 2.*

Flowers purplish: *petals* as long again as the *stamina*.

laciniata. *Leaves* in three times three; leaflets linear, 3-parted, toothed: *stamina* as long as the corol.

Pennsylvania. *Willd. sp. pl. 3. p. 479. n. 3.*

Lateral leaflets 2-parted, the middle one 3-parted.

•bulbifera. *Lower-leaves* pinnate, upper-ones simple.

Shades. *Engl. bot. t. 309. Fl. Dan. t. 361.*

microphylla. All the *leaves* pinnate; the leaflets linear-lanceolate, unequally toothed.

Siberia. *Willd. sp. pl. 3. p. 479. n. 5.*

Lower-leaflets in sevens; upper-ones in fives.

pinnata. All the leaves pinnate, with oblong pointed equally toothed divisions.

Alps. *Aiton Kew.* 2. p. 386. Leaflets 5 and 7.

pentaphyllos Leaves in finger-like divisions.

Alps. *Gesner fasc.* 1. f. 1. *Garid. prov.* t. 29.

Leaflets pointed, serrate, glabrous or rough.

1271. CARDAMINE. *Siliques* bursting elastically, with the valves revolute and equalling the partition: *stigma* entire: *calyx* a little spreading: a single *gland* on each side between the shorter *stamina* and the *calyx*. *Ladies'-smock.*

A. *Leaves simple.*

bellidifolia Leaves simple, roundish-ovate, very entire, on very long petioles: flowering stem as long as the leaves.

Pastures. *Fl. Lapp.* t. 9. f. 2. *Fl. Dan.* t. 20.

alpina. Leaves simple, oblong-ovate, very entire, on long petioles: flowering stem longer than the leaves.

Alps. *Jacq. misc.* 1. t. 17. f. 2. *All. Ped.* t. 18. f. 3.

Leaves very obtuse: *scapes* longer than the leaves.

asarifolia. Leaves simple, somewhat heart-shaped.

Alps. *Bocc. sic.* 5. t. 3. *Herm. parad.* t. 203.

Leaves rounded, a little sinuate: *flowers* white.

nudicaulis. Leaves simple, lanceolate, sinuate-toothed: stems leafless. Siberia. Leaves glabrous: *siliques* compressed.

nivalis. Leaves of the stem and root simple, oblong, toothed.

Alps. *Pall. it.* 2. app. n. 113. tab. U.

Plant glabrous: *flowers* white: *siliques* reflected.

B. *Leaves ternate.*

resedifolia. Lower-leaves undivided; upper-ones 3-lobed and pinnate.

Alps. *Allion. ped.* t. 57. f. 2. *Baub. prodr.* t. 45.

trifolia. Leaves ternate, obtuse: stem nearly naked.

Alps. *Curt. mag.* t. 452. *Jacq. Austr.* t. 27.

Leaves roundish, indented on the edge: *flowers* whitish.

scutata. Leaves ternate, shield-like, curled: stem nearly naked.

Japan. *Thunb. Transf. Linn. soc.* 2. p. 399.

africana. Leaves ternate, pointed: stem much branched.

Africa. *Herm. parad.* t. 202. *Pluk. alm.* t. 101. f. 5.

Stem erect, angular, villous: *leaflets* ovate, mucronate, serrate, little hairy: *siliques* compressed.

C. *Leaves pinnate.*

chelidonia. Leaves pinnate; leaflets 5, obtuse, deeply toothed.

Italy. Leaflets 5 or 7, lanceolate: *flowers* purple.

balictroides Leaves simple, ternate, and pinnate; leaflets 5, obtuse, 3-lobed.

Italy. *Will. Delph.* 3. t. 38. *All. ped.* 1. 57. f. 1.

macrophylla Leaves pinnate; leaflets 5 or 7, ovate, pointed, unequally toothed.

Siberia. *Gmel. fib.* 3. t. 62. *Sisymbrium*.

• *impatiens*. Leaves pinnate, with ciliate stipules; leaflets lanceolate, cut or entire.

Moist shades. *Eng. bot.* t. 80. *Fl. Dan.* t. 735.

parviflora. Leaves pinnate, without stipules; leaflets linear-lanceolate, sessile, entire, obtuse, glabrous.

Siberia. *Gmel. fib.* 3. t. 64. *Sisymbrium*.

• *birsuta*. Leaves pinnate, not stipuled; leaflets roundish-oblong, petioled, cut, hairy.

Wastes. *Eng. bot.* t. 492. *Curt. Lond. fasc.* 4. t. 48.

pennsylvanica. Leaves pinnate; leaflets roundish-oblong, with 2 large teeth each side, glabrous.

Pennsylvania. *Willd. sp. pl.* 3. p. 486. n. 15.

græca. Leaves pinnate; leaflets palmate, equal, petioled.

Greek Islands. *Bocc. succ.* 84. t. 44, f. 2.

Leaflets 9, ovate, obtuse, half palmate: corol white.

latifolia. Leaves pinnate; leaflets 5, somewhat angular-toothed, glabrous.

Spain. *Herm. parad.* t. 204. *Nasturtium*.

Plant glabrous: petals purple, slightly emarginate.

• *pratensis*. Leaves pinnate; radical-leaflets roundish, toothed; those of the stem lanceolate.

Meadows. *Eng. bot.* t. 776. *Curt. Lond. fasc.* 3. t. 40.

• *amara*. Leaves pinnate; radical-leaflets roundish; those of the stem angular-toothed: stem rooting at the base.

Wet Meadows. *Eng. bot.* t. 1000. *Curt. Lond. fasc.* 3. t. 39.

granulosa. Root-leaves simple, roundish, on very long petioles; stem-leaves pinnate: root granulate.

Piedmont. *All. auct. fl. pedem.* p. 16. n. 953.

Root fibrous, with granulate scales: stem erect, simple: leaflets of the stem lanceolate, obtuse, entire.

virginica. Leaves pinnate; leaflets lanceolate, 1-toothed at the base.

Virginia. *Pet. gaz.* t. 105. f. 18. *Pluk. alm.* t. 101. f. 4.

Stem-leaves rare, often linear and very entire.

1272. **SISYMBRIUM.** *Siliques* cylindrical, bursting with nearly straight valves: *calyx* and *corol* spreading. *Wild Rocket.*

A. Siliques declining, short.

* *Nasturtium.* *Siliques* declining: leaves pinnate, with roundish heart-shaped leaflets, *Water-cress.*

Rivulets. *Eng. bot. t. 855. Curt. Lond. fasc. 6. t. 44.*

* *sylvestre.* *Siliques* declining: leaves pinnate, with lanceolate cut-ferrate leaflets.

Marshes. *Curt Lond. fasc. 3. t. 41. All. ped. t. 56. f. 2.*

2. Upper-leaves and leaflets of the lower-ones very entire.

S. lippizense. Jacq. ic. rar. 3. t. 505.

* *terrestre.* *Siliques* declined, oblong-ovate, turgid: leaves pinnatifid, ferrate: petals shorter than the calyx.

S. palustre. Hoffm Germ. 234 Roth. Germ. 1. p. 290. 2. p. 127.

Wet places. *Curt. Lond. fasc. 5. t. 49. Fl. Dan. t. 931.*

* *amphibium* *Siliques* declined, oblong-ovate, pedicelled: leaves oblong, pinnatifid or ferrate: petals longer than the calyx.

Rivulets. *Fl. Dan. t. 984. Bauh. prodr. t. 38.*

pyrenaicum. *Siliques* somewhat ovate: lower-leaves lyrate; upper-ones doubly pinnatifid, clasping the stem: styles filiform.

Alps. *Morif. sect. 3. t. 7. f. 1. All. ped. t. 18. f. 1.*

Style capillary: *filicle* oval: *petioles* clasping the stem.

tanacetifolium. Leaves pinnate, with lanceolate cut-ferrate leaflets; the outermost confluent

Switzerland. *Morif. sect. 2. t. 6. f. 19. Zann. hist. t. 33.*

Leaves finely divided, hoary green: flowers pale yellow.

ceratophyllum. *Siliques* elliptic: leaves linear subulate, pinnatifid-toothed: stem ascending.

Africa. *Desfont. atl. 2. p. 82. tab. 155.*

Siliques lance-elliptic, terminated by a short style.

coronopifolium. *Siliques* linear, incurved: leaves lanceolate, pinnatifid-toothed, pubescent: stem ascending.

Africa. *Desfont. atl. 2. p. 82. t. 154.*

Siliques linear, incurved: flowers yellow.

* *tenuifolium* *Siliques* erect: leaves glabrous, nearly entire, pinnatifid and doubly pinnatifid; the upper-ones undivided.

Walls. *Eng. bot. t. 525. Curt. Lond. fasc. 3. t. 38.*

sagittatum. Pubescent: *siliques* cylindrical, declined: leaves oblong-ovate, toothed; the radical-ones spear-shaped, those of the stem arrow-shaped and clasping the stem.

Siberia. *Jacq. ic. rar. 1. t. 122. S. molle.*

Root-leaves petioled, spear-shaped or slightly runcinate.

amplexicaule. Glabrous: filiques compressed, erect: leaves toothed; the radical-ones obovate; those of the stem oblong, heart-shaped, clasping.

Algeira. *Desfont. atl. 2. p. 81. t. 153.*

B. *Siliques sessile, axillary.*

supinum. Siliques axillary, nearly sessile, solitary: leaves toothed-sinuate.

Paris. *Isnard. Act. 1724. p. 295. t. 18.* Eruca.

polyceratium. Siliques axillary, sessile, subulate, aggregate: leaves repand-toothed.

Switzerland; Italy. *Jacq. hort. tab. 79.*

slifolium. Siliques axillary, nearly sessile, compressed: leaves linear.

Siberia. *Willd. sp. pl. 3. p. 495. n. 14.*

Leaves nearly sessile; the upper-ones often cloven.

bursifolium. Raceme flexuous: leaves lyrate: stem erect, leafy.

Europe. *All. ped. t. 57. f. 5. Dill. elib. t. 148. f. 177.*

torulosum. Raceme erect: filiques sessile, pubescent: leaves lanceolate, toothed.

Africa. *Desfont. atl. 2. p. 84. tab. 159.*

Stems bristly: leaves pubescent: filiques subulate.

C. *Stem naked.*

murale. Nearly stemless: filiques erect: leaves deeply serrate: scapes spreading, roughish.

Sandy wastes. *Eng. bot. t. 1090. Barr. rar. t. 131.*

2. Leaves lyrate-runcinate, smooth: stem bristly.

S. Erucastrum. *Gouan. illustr. p. 42. t. 20.*

monense. Stemless: filiques nearly erect: leaves pinnatifid, a little hairy: scapes simple, glabrous.

Sandy wastes. *Eng. bot. t. 962. Lightf. Scot. t. 15. f. 1.*

repandum. Stemless: leaves oblong, repand-sinuate, glabrous: scapes glabrous: filiques compressed and 4-sided.

Piedmont. *Vill. Delph. 3. t. 39.* S. monense.

Valves with an elevated longitudinal suture in the middle.

Tillieri. Stem nearly naked, panicled: leaves glabrous; the radical ones runcinate in a somewhat lyrate form; those of the stem pinnatifid at the base.

Piedmont. *Billard. app. atl. ad flor. pedem.*

Plant glabrous: root-leaves somewhat pinnatifid, with the terminal lobe roundish and 5-angled: flowers yellow.

vimineum. Stemless: leaves lyrate, smooth: scapes ascending.

Sicily; Montpellier. *Bocc. sic. 19. t. 10.* Eruca.

Barrelieri. Stem nearly naked, branched: root-leaves runcinate, toothed, bristly.

Spain; Italy. *Barr. ic.* 1016. *Eruca*.

Root-leaves numerous, with peducid bristles: *flowers* yellow.

arenosum. Stem a little leafy, branched: leaves lyrate, with rectangular teeth, bristly with branched hairs.

Germany. *Scop. Carn. t.* 40. *Loef. Pruss. t.* 13.

Stem-leaves lanceolate, toothed, with simple bristles.

valentinum. Stem simple, erect, glabrous above: leaves lanceolate, bristly, toothed on the fore-part.

Spain. *Barr. rar. t.* 195. *f.* 1. *Bocc. mus. 2. t.* 80.

Stem-leaves linear-lanceolate, not toothed.

D. *Leaves pinnate*.

Parra. Cauliscent: leaves runcinate, muricate.

Parra. *Leaves* muricate with pointed tubercles: *leaflets* toothed, opposite: *flowers* yellow.

asperum. Siliques rough: leaves pinnatifid, with linear-lanceolate slightly toothed divisions: corol longer than the calyx.

Spain: Montpellier. *Baub. hist. 2. p.* 858.

laevigatum. Siliques smooth: leaves pinnate; the divisions of the lower ones toothed, of the upper-ones linear and very entire.

— *Willd. 3. p.* 500. *Flowers* yellow: *siliques* glabrous.

millefolium. Leaves repeatedly divided: petals larger than the calyx.

Teneriffe. *Jacq. ic. rar. 1. t.* 127. *Leaves* hoary.

* *Sophia*. Leaves doubly pinnate, a little hairy: petals less than the calyx.

Wastes. *Engl. bot. t.* 963. *Mart. russ. t.* 57. *Fl. Dan. t.* 528.

album. Leaves pinnate, whitish-pubescent; leaflets obtuse, tapering to the base.

Siberia. *Pall. it. 3. app. n.* 102. *tab.* U.

Stems downy: *radical-leaflets* obovate, often parted, the uppermost confluent; *stem-leaflets* lanceolate, entire, obtuse, the uppermost confluent: *petals* white, larger than the calyx.

cinereum. Leaves pubescent, somewhat fleshy, pinnate, with linear-filiform divisions.

Africa. *Desfont. atl. 2. p.* 83. *tab.* 157.

Stem erect: *flowers* pale violet: *siliques* compressed.

altissimum. Leaves runcinate, flaccid, with entire and nearly linear segments: peduncles lax.

Siberia: Austria. *Buxb. cent. 5. t.* 51. *Walzb. kori. t.* 22.

eckartsbergense. Leaves runcinate, flaccid, with the segments entire and rough at the edge: siliques filiform, spreading and a little inflected.

Austria. *Jacq. Austr. t.* 262? *S. austriacum*.

- pannonicum*. Lower-leaves runcinate, toothed; upper-ones pinnate, with linear entire divisions: siliques spreading in a right angle.
Hungary. *Jacq. ic. rar.* 1. t. 103.
- erysimoides*. Leaves runcinate-lyrate, toothed, glabrous: siliques spreading in a right angle and slightly peduncled.
Africa. *De font. atl.* 2. p. 84. t. 158.
Leaves glabrous; the divisions oblong, toothed at top, with a very large rhombic deeply toothed terminal one: flowers white.
- *Irio*. Leaves runcinate, toothed, naked: stem smooth: siliques erect.
Waites. *Curt. Lond. fasc.* 5. t. 48. *Jacq. Austr.* t. 322.
- Columnæ*. Leaves runcinate, toothed, villous, somewhat hoary: stem villous and somewhat hoary: siliques erect.
Germany; Austria. *Jacq. Austr.* 4. t. 323.
Plant villous: flowers alternate, yellow.
- Læselii*. Leaves runcinate, acute, hairy: stem armed with bristles pointing backwards.
Austria; Germany. *Jacq. Austr.* t. 324.
Leaves roughish: siliques nearly erect: flowers yellow.
- obtusangulum*. Leaves pinnatifid, obtuse, toothed, clasping the stem: stem armed with bristles pointing backwards.
Switzerland. *Bauh. hist.* 2. p. 862. *Eruca*,
Flowers yellow: siliques obtusely square, glabrous.
- orientale*. Leaves runcinate, downy: stem smooth.
The East. Flowers pale yellow: siliques very long.
- barbarea*. Leaves simple, spatulate-ovate, toothed, clasping the stem, naked.
The East. Stem angular: root-leaves heart-ovate.
- lyratum*. Lower-leaves lyre-runcinate, toothed; upper-ones linear-lanceolate, remotely toothed.
The Cape. *Willd.* 3. p. 505. Siliques linear.
- catholicum*. Siliques filiform, smooth: radical and stem-leaves pinnate, denticulate.
Spain; Portugal. Leaves fragile with oblong leaflets.
- heterophyllum*. Leaves pinnate; leaflets kidney-form, about 3-lobed, the lowest-ones pinnatifid and hairy.
New Zealand. *Forst. prodr.* n. 250.
- glaciale*. Siliques filiform, smooth: leaves pinnate, with kidney-form ciliate leaflets.
Terra del Fuego. *Forst. Comm. Gott.* 9. p. 36.
Floral-leaves pinnatifid: flowers white.

E. *Leaves lanceolate, undivided.*

- strictissimum*. Leaves oblong-lanceolate, toothed, pubescent, petioled: filiques spreading.
South of Europe. *Jacq. Austr. t. 194.*
Stem pubescent: filiques long, linear, stiff, glabrous.
- pendulum*. Leaves lanceolate, deeply toothed, bristly: filiques pendulous.
Africa. *Desfont. atl. 2. p. 82. t. 156.*
Flowers yellow: filiques linear, on long peduncles.
- hispanicum*. Leaves lanceolate, toothed, sessile, glabrous: filiques pressed to the stem: stem branched, divaricate.
Spain. *Jacq. ic. rar. 1. tab. 124.*
Flowers yellow: filiques short, curved, appressed.
- pumilum*. Leaves lanceolate, toothed, arrow-shaped, clasping the stem, pubescent: filiques erect or a little spread.
Persia. *Willd. sp. pl. 3. p. 507. n. 49.*
Plant hoary pubescent: root-leaves runcinate.
- salsuginosum*. Leaves lanceolate, very entire, hearted, clasping the stem, glabrous: filiques spreading.
Siberia. *Pall. it. 2. app. n. 114. tab. V.*
Plant glabrous, glaucous: flowers small, white.
- integrifolium*. Leaves linear, very entire: peduncles glutinous and bristly.
Siberia. *Gmel. Sib. 3. p. 270. t. 65.*
Leaves glabrous: flowers white or yellow.
- indicum*. Leaves lance-ovate, ferrate, petioled, smooth: filiques a little curved.
India. Stem flexuous, angular: flowers minute, white.
- hispidum*. Cauliscent: leaves petioled, oblong, toothed, and stem bristly.
Egypt. *Vahl. symb. 2. 77.* Plant bristly: pedicels declined.

1273. *ERYSIMUM*. *Siliqua* columnar, exactly square: calyx closed: stigma capitate.*Hedge-Mustard.*

- * *officinale*. Siliques pressed close to the spike-stalk: leaves runcinate.
Wastes. *Eng. bot. t. 735. Curt. Lond. f. 5. t. 50. Woodv. t. 244.*
- * *Barbarea*. Lower-leaves lyrate, with the terminal lobe rounded; upper-ones obovate, toothed.
Wastes. *Eng. bot. t. 443. Pet. H. Brit. t. 46. f. 1.*
- * *præcox*. Lower-leaves lyrate; upper-ones pinnatifid, with linear-oblong very entire divisions.
Ditches. *Eng. bot. t. 1129. Pet. H. Brit. t. 46. f. 2.*
- * *Alliaria*. Leaves heart-shaped, acute, toothed.
Hedges. *E. bot. t. 796. Curt. Lond. f. 2, t. 48. Woodv. t. 245.*

- repandum.* Leaves lanceolate, repand-toothed: racemes opposite the leaves: siliques nearly sessile, horizontal.
South of Europe. *Jacq. Austr. t. 22.*
Stem flexuous, roughish: leaves roughish: flowers yellow.
- * *repandum.* Leaves lanceolate, nearly very entire: siliques erect; pedicels when in fruit spreading.
Corn fields. *Eng. bot. t. 942. Jacq. Austr. t. 23. Fl. Dan. 731.*
- humile.* Leaves lanceolate, with remote sinuate teeth: siliques erect, somewhat pubescent.
Germany: Sweden. *Flor. Dan. t. 923.*
Stem angular, roughish: leaves roughish: flowers yellow.
- odoratum.* Leaves lanceolate, remotely and sharply toothed: petals roundish: siliques erect, stiff: stem grooved.
Austria. *Jacq. Austr. t. 73. E. hieracifolium.*
- virgatum.* Leaves lanceolate, slightly toothed: petals lance-obovate: siliques erect, stiff: stem much branched, wand-like stiff.
Fl. b. Cat. bot. 1. p. 75. Willd. 3. p. 512.
Stem grooved only at top, branched from the base.
- diffusum.* Leaves linear, flat, slightly toothed, recurved, a little hoary: siliques erect, spreading.
Austria. *Jacq. Austr. t. 75. Cheiranthus alpinus.*
Stem short topped: siliques spreading, hoary.
- angustifolium.* Leaves linear, channelled, very entire, recurved, a little hoary: siliques erect, terminated by a long style.
Hungary. *Prior & Mitterp Journ. p. 146. t. 15.*
Plant hairy: leaves scarcely toothed: siliques thick.
- juncum.* Leaves linear, stiff, glabrous: siliques erect and a little spreading: stem branched only at top.
Hungary. *Willd. 3 p. 513. Lower-leaves toothed.*
- bicorne.* Leaves lanceolate, hairy: siliques 2-horned at top.
Canaries. *Aiton Kew 2 p. 394. Siliques hairy.*
- quadricorne.* Leaves lanceolate, slightly toothed, pubescent: flowers without petals: siliques 4-horned at top.
Siberia. *Willd. 3. p. 514. Plant pubescent.*

1274. CHEIRANTHUS. Germ with a glandular tooth each side: calyx closed; 2 of the leaves gibbous at the base: seeds flat.

Stock. Wall-flower.

erysimoides. Leaves lanceolate, toothed, naked: stem erect, quite simple: siliques 4-sided.

Hungary; France. *Jacq. Austr. t. 74. Flor. Dan. t. 229.*
Stem, leaves and unripe siliques a little rough.

- helveticus*. Leaves lanceolate, toothed, naked: stem erect: silique 4-fided, with a pointed style.
Italy; Switzerland. *Jacq. hort. t. 9 All. ped. t. 58. f. 2.*
Petals not emarginate as in the last: *siliques* acute.
- alpinus*. Leaves linear, entire, somewhat downy.
Lapland. Root leaves oval, petioled: *flower* yellow.
- lanceolatus*. Leaves oblong lanceolate, very entire: petals lanceolate: stem villous.
Tauria. *Willd. sp. pl. 3. p. 515. n. 4.*
Stem quite simple: *lower-leaves* oblong, obtuse, petioled; upper-most ones sessile, obtuse.
- cheiri*. Leaves lanceolate, acute, glabrous: stem shrubby, with angular branches.
South of Europe. *Blackw. t. 179. Moris. flet. 3. t. 8. f. 15.*
Resembles the next, but the leaves are quite glabrous.
- * *fruticulosus*. Leaves lanceolate, acute, hoary underneath, clothed with simple appressed pubescence: stems somewhat shrubby, with angular branches.
Old walls. *Barr. ic. 1228.*
- callosus*. Leaves lanceolate, entire, callous: stem shrubby, angular.
The Cape. *Linn suppl. 296.*
- strictus*. Leaves linear, acute, glabrous: stem shrubby, erect.
The Cape. *Linn suppl. 296.*
- tenuifolius*. Leaves filiform, very entire, somewhat silky: stem somewhat shrubby, branched.
Madeira. *Aiton Kew. 2. p. 395.* Siliques erect.
- mutabilis*. Leaves lanceolate, pointed, sharply ferrate: stem somewhat shrubby: siliques peduncled.
Madeira. *Cart. mag. t. 195.* Siliques linear.
- apricus*. Bristly: leaves lanceolate, slightly toothed at the base: siliques erect.
Siberia. *Willd. 3. p. 518.* Siliques linear, glabrous.
- chius*. Leaves obovate, emarginate, veinless: siliques subulate at the tip.
Chios; Russia. *Dill. elth. t. 147. f. 178. Herm. parad. t. 193.*
Stem prostrate, hairy: *siliques* hairy.
- maritimus*. Leaves elliptic, obtuse, naked, roundish: stem diffuse, rough.
Mediterranean shores. *Curt. mag. t. 166. Barr. ic. 1127.*
Stem rough with appressed double hairs: *leaves* obtuse.
- parvislorus*. Leaves lanceolate, repand-toothed: siliques sessile, horizontal, distant, forked at top.
Morocco. *Willd. sp. pl. 3. p. 519. n. 14.*
Leaves pubescent, with stellate hairs: *siliques* sessile, deeply forked with an oblong stigma in the middle.

- salinus.* Leaves lanceolate, obtuse, very entire: stem erect: antheræ included.
Siberia. Plant covered with thin down: leaves very minutely toothed: corol purple with a yellowish throat.
- bicuspidatus* Leaves lanceolate, acute, slightly toothed, pubescent: filiques appressed, bicuspidate.
Armenia. Willd. 3. p. 519. Plant pubescent.
- incanus.* Leaves lanceolate, very entire, obtuse, hoary: filiques truncate at top, compressed: stem somewhat shrubby.
Spain. Mill. Illustr. fig. Lob. ic. 329 Moris f. 3. t. 8. f. 1.
This species is the common Stock-Gilliflower of the gardens.
- fenestralis.* Leaves crowded in heads, recurved, waved: stem undivided.
Linn. dec. 31. t. 16. Jacq. hort. t. 179.
Stem erect, naked, with a tuft of leaves at the top: leaves lanceolate, obtuse, sessile, hoary, waved.
- annuus.* Leaves lanceolate, slightly toothed, obtuse, hoary: filiques cylindrical, acute at top: stem herbaceous.
South of Europe. Petals emarginate.
- littoreus.* Leaves lanceolate, slightly toothed, somewhat downy, a little fleshy: petals emarginate, filiques downy.
Mediterranean shores. Stem alternately branched, hoary: leaves channelled, obtuse: filiques subulate.
- contortuplicatus.* Root-leaves sinuate-toothed; stem-leaves lanceolate, slightly toothed: filiques bristly, revolute.
Siberia. Willd. sp. pl. 3. p. 521. n. 21.
Stem pubescent: flowers violet.
- leucanthemus.* Leaves pubescent, the radical ones runcinate, those of the stem linear and slightly toothed: filiques erect.
Persia. Willd. 3. p. 521. Plant hoary: flowers white.
- tristis.* Leaves linear, somewhat sinuate: flowers sessile, with waved petals: stem shrubby.
South of Europe. Bocc. mus. 148. t. 111. Leucosium.
Plant roughish, hoary: flowers dull purple.
- vilobus.* Leaves linear, obtuse, deeply toothed, somewhat hoary: calyxes and filiques smooth, round, spreading: style subulate, mucronate.
Spain. Stem hoary: calyx not hairy: filiques glabrous.
- pulchellus.* Leaves lanceolate, glabrous, ciliate-toothed: stem quite simple.
Cappadocia. Willd. sp. pl. 3. p. 523.
Root creeping: leaves with 3—5 subulate teeth each side on the margin: flowers yellow.
- pinnatifidus.* Leaves pinnatifid, hairy, with linear very entire divisions.
Siberia. Willd. 3. p. 523. Flowers reddish.

- tricuspidatus*. Leaves lyrate: siliques 3-toothed at top.
Coast of Tripoli. *Morif. 2. sect. 3. t. 8. f. 13.*
Calyx and ends of the branches downy: flowers purple.
- tomentosus*. Leaves downy, pinnatifid, obtuse: siliques cylindrical, downy, smooth.
Siberia. *Pall. it. 2. app. n. 115. tab. K. f. 2.*
Plant clothed with thick down: petals yellow.
- odoratissimus*. Leaves downy, lyre-sinuate: siliques compressed, downy, smooth.
Persia. *Willd. 3. p. 524.* Plant downy.
- * *sinuatus*. Leaves downy; the lower-ones sinuate, those of the stem undivided: siliques downy, compressed, muricate.
Sea shores. *Eng. bot. t. 462. Baub. hist. 2. 875. f. 876.*
- taraxacifolius*. Leaves pubescent; the lower-ones runcinate-pinnatifid, upper-ones sharply toothed.
Siberia. *Willd. 3. p. 525.* Leaves green, hairy.
- cuspidatus*. Leaves lanceolate, toothed: stem erect, simple: siliques stiff, with 2 broad edges, twice as long as the permanent style.
Siberia. *Buxb. cent. 2. p. 23. t. 33. f. 1.* Turritis.
Plant hoary: upper-leaves sessile: flowers yellow.
- quadrangulus*. Leaves linear, very entire: siliques sessile, oblong, quadrangular.
Siberia. *L'Herit. stirp. 1. p. 91. t. 44.* *C. cornutus*.
Leaves reflected: flowers sessile: style very long.
- Farsesia*. Siliques oval, compressed: leaves linear-lanceolate: stem shrubby, erect.
Egypt; Barbary. *Desfont. atl. 2. p. 89. t. 160.*
Plant hoary: petals linear, rounded, entire, oblique.

1275. HELIOPHILA. *Nectaries* 2, recurved towards the vesicular base of the calyx.

- integrifolia*. Leaves lanceolate, undivided.
The Cape. *Jacq. ic. rar. 3. t. 606. Herm. lugdb. t. 365.*
Leaves hairy above, glabrous underneath: bladders at the base of the calyx diaphanous: flowers blue.
- arabioides*. Leaves linear, fleshy, 3-toothed and simple: siliques cylindrical, clavate at top.
The Cape. *Curt. mag. tab. 496.*
Stem and leaves hairy: flowers blue.
- incana*. Leaves spatulate, very entire, pubescent: siliques villous.
The Cape. *Burm. nov. Act. Ups. 1. p. 94. t. 7.*
Leaves fleshy: siliques erect: flowers violet.

- circæoides*. Leaves heart-shaped, somewhat angular.
The Cape. *Siliques* 2-celled, 2-valved; valves convex, gibbous, juicy; partition exerted, fleshy, globular.
- amplexicaulis*. Leaves clasping the stem, entire, glabrous: *siliques* moniliform.
The Cape. *Linn. suppl.* 296.
- flava*. Leaves linear: stems shrubby, rush-like.
The Cape. *Siliques* cylindrical and a little square.
- canescens*. Stem flexuous: leaves linear, somewhat falcate, obtuse.
East Indies. *Burm. Ind.* 140: *t.* 46. *f.* 2. *H. incana*.
Stems glabrous, whitish: *siliques* linear, compressed.
- pusilla*. Leaves linear: *siliques* moniliform, erect.
The Cape. *Siliques* with distant round joints.
- filiformis*. Leaves subulate, filiform, glabrous: *siliques* pendulous: branches divaricate.
The Cape. *Siliques* subulate, stiff, smooth.
- pendula*. Leaves pinnate, with filiform glabrous leaflets: *siliques* pendulous, moniliform.
The Cape. *Leaves* with 7 leaflets: *petals* pale yellow.
- pinnata*. Leaves 3-cleft and pinnate, with linear leaflets: *siliques* moniliform, pendulous.
The Cape. *Linn. suppl.* 297.
- coronopifolia*. Leaves linear, pinnatifid, glabrous.
The Cape. *Herm. lugdb.* *t.* 367. *Seba Mas.* 1. *t.* 17. *f.* 5.
Plant glabrous: *flowers* blue.
- digitata*. Leaves palmate-pinnatifid, villous, with linear divisions.
The Cape. *Stem* very much thickened.

1276. HESPERIS. *Petals* bent obliquely: gland within each of the shorter stamina: *siliques* stiff: calyx closed, 2 of the leaves gibbous at the base. *Rocket*.

- tristis*. Stem bristly, branched, spreading.
Austria. *Jacq. Austr.* *t.* 102. *Comm. hort.* *t.* 18.
- laciniata*. Stem branched, bristly: leaves obovate, toothed; the radical-ones a little cut at the base.
Piedmont. *All. pedem.* *n.* 985. *t.* 82. *f.* 1.
Flowers yellow: *siliques* very long, recurved.
- matronalis*. Stem simple, erect: leaves ovate-lanceolate, denticulate: petals emarginate with a point.
Germany; Siberia. *Gmel. Sib.* 2. *t.* 58.
2. *Petals* very obtuse, entire. *H. sibirica*. *Gmel. Sib.* *n.* 19.

- * *inodora*. Stem simple, erect: leaves ovate-lanceolate, toothed, somewhat halbert-shaped at the base: petals obtuse.
Pastures. *Eng. bot. t. 731. Jacq. Aulr. t. 347. Fl. Dan. t. 924.*
- tatarica*. Stem simple, naked, decumbent: leaves downy, deeply toothed
Siberia. *Pall. it. 1. app. 117. tab. O.*
Flowers livid yellow: calyx downy: siliques yellow.
- africana*. Stem much branched, diffuse: leaves lanceolate, petioled, acutely toothed, rough: siliques sessile.
Africa; France. *Bocc. Sic. 77. t. 42. f. 1. Leucoium.*
Plant clothed with tricuspidate hairs: petals flesh-colour.
- ramosissima*. Pubescent, hoary: stem much branched: leaves lanceolate, obtuse, toothed, nearly sessile: siliques peduncled.
Algeira. *Desfont. atl. 2. p. 91. tab. 161.*
Plant hoary: siliques linear, uneven, pubescent.
- arenaria*. Pubescent: stem branched: leaves lanceolate, acute, sessile; the lower-ones toothed: siliques uneven in their surface, subulate, sessile.
Algeira. *Desfont. atl. 2. p. 91. t. 162.*
Lower-leaves repand-toothed; upper-ones very entire.
- verna*. Stem erect, branched: leaves heart-shaped, clasping the stem, ferrate, villous.
South of France. *Moris. 2. p. 231. sect. 3. t. 8. f. 5.*
- lacera*. Leaves runcinate: siliques tricuspidate.
Portugal; France. *Herm. parad. t. 193. Leucoium.*
Leaves naked: calyx hairy: siliques 3-pointed.
1277. *ARABIS*. *Nectariferous glands* 4, 1 within each leaf of the calyx, oblong, scale-like, reflected: calyx closed, 2 of the leaves gibbous at the base: *siliques* linear, swelling at the seeds, entire and capitate at the tip. *Wall-crests.*
- alpina*. Leaves oblong-lanceolate, clasping the stem; acutely toothed.
Alps. *Curt. mag. t. 226. Flor. Dan. t. 62.*
Stem erect, simple, rarely branched and diffuse: leaves hairy: flowers white: *silicles* generally incurved.
- grandiflora*. Stem naked.
Siberia. *Amæn. acad. 358. t. 4. f. 20.*
Leaves radical, divided in a pinnate manner, with pointed segments, rough: petals purple.
- * *italiana*. Root-leaves oblong, petioled; those of the stem lanceolate, sessile: stem erect, hairy at the base: petals twice as long as the calyx.
Walls, &c. *Eng. bot. t. 901. Curt. Lond. fasc. 2. t. 49.*

crantziana. Leaves lanceolate; the radical-ones petioled, those of the stem sessile: stem decumbent, glabrous: petals three times as long as the calyx.

Austria. *Crantz. Austr.* 39. t. 3. f. 2.

reita. Leaves lanceolate, hearted, clasping the stem, obtusely toothed: stem erect, pubescent.

South of France. *Vill. delph.* 3. p. 319. t. 37.

Whole plant covered with forked hairs.

serpillifolia. Leaves elliptic, very entire, sessile: stem flexuous, decumbent.

South of France. *Vill. delph.* 3. p. 318. t. 37.

Plant covered with stellate hairs: siliques glabrous.

reptans. Leaves roundish, very entire, hairy; shoots creeping.

Virginia. *Pluk. alm.* 281. t. 51. f. 5. *Paronychia*.

cærulea. Leaves obovate, toothed at top: stem with 2 or 3 leaves: raceme drooping.

Alps. *Allion. ped. n.* 981. t. 40. f. 2. *Turritis*.

Leaves thickish: flowers nodding, blueish.

bellidifolia. Leaves slightly toothed; the radical-ones obovate, those of the stem lanceolate: raceme erect.

Alps. *Jacq. Austr.* 3. t. 280. *Jacq. Obs.* 1. t. 12.

mutans. Leaves slightly toothed; the radical-ones obovate, those of the stem lanceolate: stem leafy: raceme nodding when in fruit: siliques leaning one way.

Alps. *Jacq. Austr.* t. 281. *A. pumila*.

lyrata. Leaves glabrous; the radical-ones lyrate, those of the stem linear.

Canada. Stem erect, filiform.

* *bispida*. Leaves rough with forked hairs: the radical-ones runcinate or lyrate, those of the stem lanceolate: stems glabrous, branched.

Alpine rocks. *Fl. Dan.* t. 386. *Pet. H. Brit.* t. 50. f. 3.

2. *Eng. bot.* t. 469. *Lightf. Scot.* t. 15. f. 2.

* *stricta*. Leaves toothed, obtuse, bristly; the radical-ones somewhat lyrate: stems bristly: petals erect.

Rocks. *Eng. bot.* t. 614. *Veilley. Mar. Pl.* t. 5.

Halleri. Stem-leaves somewhat lyrate, those of the branches lanceolate, cut: stem glabrous, decumbent.

Germany. *Hall opusc* 101. t. 1. f. 1. *Sisymbrium*.

Leaves a little hairy: flowers small, white.

ovirensis. Root-leaves orbicular; those of the stem somewhat ovate, petioled, repand-toothed: root creeping.

Alps. *Jacq. ic. rar.* 1. t. 125. Flowers rosy.

- canadensis.* Stem-leaves lanceolate, toothed, glabrous.
Canada. *Pluk alm.* 139. t. 86. f. 8. *Eruca.*
- lucida.* Leaves clasping the stem, lucid.
Pannonia. Stem simple: leaves very entire; the radical-ones obovate and petioled: flowers white.
- pendula.* Leaves clasping the stem, pointed: siliques 2-edged, linear, pendulous.
Siberia; Denmark. *Gmel. Sib.* 3. t. 60. *Fl. Dan.* t. 62.
Plant rough: calyx hairy at top: flowers white.
- * *Turrita.* Leaves clasping the stem: siliques decurved, flat, linear, with a thickened margin.
Cambridge. *Eng. bot.* t. 178. *Jacq. Austr.* t. 11.
- saxatilis.* Leaves clasping the stem, obtuse, rough: siliques erect, stiff, flat, somewhat 4-sided, striate.
South of Europe. *Vill. delph.* 3. t. 37. *A. nova.*
- aspera.* Leaves clasping the stem, obtuse, extremely rough: siliques erect, stiff, nearly cylindrical.
South of France. *All. austr. fl. pedem. n.* 937. t. 2. f. 2.

1278. TURRITIS. *Siliqua* very long, straight, somewhat angular: calyx closed, erect: corol erect. *Tower-Mustard.*

- * *glabra.* Root-leaves toothed, bristly: those of the stem very entire, glabrous, clasping the stem.
Pastures. *Eng. bot.* t. 777. *Curt. Lond. fasc.* 4. t. 47.
- laevigata.* Leaves glabrous; the radical-ones obovate, serrate; those of the stem lance-linear, very entire, clasping the stem.
Pennsylvania. *Wild.* 3. p. 543. Stem simple.
- stricta.* Leaves glabrous, lucid; the radical-ones ovate and slightly toothed; those of the stem lanceolate, sharply toothed, sessile.
Piedmont. *Willd.* 3. p. 543. Stem simple.
- * *hirsuta.* All the leaves bristly, with simple hairs; those of the stem clasping and toothed in the middle: branches quite erect.
Rocks. *Eng. bot.* t. 587. *Jacq. ic. rar.* 1. t. 126.
- patula.* All the leaves bristly, with forked hairs; those of the stem clasping and toothed at top: branches spreading.
Hungary. *Willd. sp. pl.* 3. p. 544. n. 5.
- pubescens.* All the leaves bristly; those of the stem sessile, obtusely toothed at top: branches spreading.
Algeira. *Desfont. atl.* 2. p. 92. t. 163.
Stem-leaves tapering to the base, not hearted.

- ciliata.* Leaves glabrous, ciliate at the base and tip with forked hairs; those of the stem sessile, toothed at the base.
Switzerland. Willd. 3 p. 544. Plant glabrous.
- alpina.* Root-leaves toothed, bristly; those of the stem glabrous, half clasping, very entire.
Austria. Stem-leaves obtuse: petals white.

1279. BRASSICA. *Siliques* cylindrical, with the valves shorter than the partition: *calyx* erect, partly closed: *gland* between the shorter stamina and the pistil, and between the longer stamina and the calyx: *seeds* globular.

Cabbage.
A. *Style* more or less obtuse.

- * *orientalis.* Leaves heart-shaped, obtuse, clasping the stem, glabrous; the radical-ones roughish and very entire: *siliques* 4-sided.
Maritime rocks. Jacq. Austr. t. 282. Pet. H. Brit. t. 45. f. 5.
- austriaca.* Leaves heart-shaped, obtuse, clasping the stem, very entire, glabrous; *siliques* 4-sided, striate and grooved.
Austria. Jacq. Austr. t. 283. Flowers deep yellow.
- * *campestris* Root and stem thin; leaves heart-shaped, pointed, clasping the stem; the lower-ones lyrate, toothed, a little hairy.
Fields. Flor. Dan. tab. 550.
- arvensis.* Leaves clasping the stem, spatulate, repand; the upper-ones heart-shaped, very entire.
South of Europe. Bocc. Sic. 49 t. 25. f. 3, 4.
Stem flexuous: leaves glabrous, fleshy, very obtuse.
- alpina.* Stem-leaves heart-arrow-shaped, clasping the stem; the radical-ones ovate: petals erect.
Switzerland. Vill. delph. 3. p. 330, t. 36.
Root-leaves on long petioles: petals erect, white.
- * *Napus.* Root stem like, fusiform: leaves smooth; the upper-ones heart-lanceolate, clasping the stem; lower-ones lyrate, toothed.
Rape. Navew. Colewort.
Corn fields. Mart. fl. rust. t. 103. Blackw. t. 224.
- * *Rapa.* Root stem-like, orbicular, depressed, fleshy: root-leaves lyrate, rough; those of the stem very entire and smooth.
Turnep.
Cultivated fields. Mart. fl. rust. t. 40, 50. Blackw. t. 226.
- * *oleracea.* Root stem-like, cylindrical, fleshy: all the leaves glabrous, glaucous, waved and lobed.

Sea cliffs. *Eng. bot. t. 637. Freeman ic. t. 4, 5.*

From this species originate all the cultivated kinds of *Cabbage*,
Savoy, *Borecole*, *Scotch Kale*, *Cauliflower*, and *Broccoli*.

Richerii. Leaves petioled, oblong, slightly toothed: root stem-like.

Alps. Vill. delph. 3. t. 36. All. ped. t. 58. f. 1. t. 76. f. 2.

Stem-leaves petioled, obovate, entire, obtuse.

cretica. Stem shrubby: leaves roundish-ovate, crenate, petioled, smooth.

Crete. Lamarck. encycl. 1. p. 739.

suffruticosa. Stem somewhat shrubby: leaves glaucous, somewhat fleshy, very entire, ovate-oblong, tapering to the base.

Africa. Desfont. atl. 2. p. 94. Willd. 3. p. 550.

Plant glabrous: *leaves* petioled, tapering to the base.

chinensis. Leaves oval, nearly entire; the floral-ones clasping the stem, lanceolate: calyx longer than the claw of the petals.

China. Leaves obtuse, glabrous.

violacea. Leaves lance-ovate, glabrous, undivided, toothed.

China. Hort. Up. 191.

subbistata. Leaves glabrous; the radical-ones runcinate, those of the stem lanceolate, very entire, somewhat halbert-shaped.

Islands of the Archipelago. Willd. 3. p. 550.

Siliques thin, cylindrical, erect: *flowers* yellow.

polymorpha. Lower-leaves narrow lanceolate, pinnatifid-toothed: upper ones longer, very entire: calyx spreading

Hungary; Siberia. Murr. Comm. Gatt. 1776 p. 35. t. 6?

teretifolia. Leaves fleshy, cylindrical, glabrous, pinnate, with distinct subdivisions.

Africa. Desfont. atl. 2. p. 94. t. 164.

Plant glabrous: *leaves* soft: *corol* violet.

B. *Siliques* with an ensiform style. *Eruca*.

Erucastrum Leaves runcinate: stem bristly: *siliques* smooth.

South of Europe. Vill. prosp. 40. t. 20 f. 5.

Segments of the *leaves* decurrent, linear-lanceolate, the outmost trifid: *siliques* spreading, obtusely quadrangular.

Eruca. Leaves lyrate: stem hairy: *siliques* glabrous.

Austria; Switzerland. Blackw. t. 242.

Segments of the *leaves* linear-lanceolate, nearly entire.

pinnatifida. Leaves pinnatifid, with ferrate segments: *siliques* cuspidate, square.

Africa. Desfont. atl. 2. p. 95. t. 165.

Stem sometimes bristly at the base: *siliques* pointed.

- elongata.* Leaves petioled; the lower-ones sinuate-pinnatifid and bristly, upper-ones toothed and glabrous: siliques swelling at the seeds, cuspidate.
Hungary. *Waldst. pl. rar. Hung. 1. p. 26. t. 28.*
- cheiranthus.* Leaves petioled, pinnatifid, toothed, bristly: siliques swelling at the seeds, with a flat beak.
South of France. *Vill. delph. 3. t. 36. Barr. ic. 1016.*
Calyx closed: *siliques* with a flat 1-seeded beak.
- vesicaria.* Leaves runcinate: siliques bristly, covered with the tumid calyx.
Spain. *Stem* hairy: *leaves* glabrous above: *calyx* of the fruit inflated, permanent: *corol* yellow.
- lyrata.* Leaves bristly; the radical-ones lyrate, those of the stem deeply toothed: stem ascending: siliques oblong, compressed.
Africa. *Desfont. atl. 2. p. 96. t. 166.*
Flowers violet: *siliques* short, bristly.
- crassifolia.* Leaves pinnatifid, with linear divisions.
Egypt. *Vahl. symb. 2. p. 78. Willd. 3. p. 554.*
Plant glabrous: divisions of the *leaves* obtuse, entire.

1280. SINAPIS. *Siliques* beaked, with the valves shorter than the partition: *gland* between the shorter stamina and the pistil, and between the longer stamina and the calyx: *calyx* very much spread: *corol* with straight claws. *Mustard.*

- arvensis.* Siliques many-angled, turgid at the seeds, longer than the 2-edged beak: leaves ovate, somewhat lyrate.
Charlock.
Corn fields. *Curt. Lond. fasc. 5. t. 47. Flor. Dan. t. 753.*
- orientalis.* Siliques bristly backwards, quadrangular and somewhat compressed at top.
The east. *Beak* of the *siliques* smooth.
- crassicata.* Leaves obovate, denticulate, smooth.
China. *Upper leaves* clasping the stem: *calyx* yellow, spreading: *petals* yellow, hardly emarginate.
- alba.* Siliques bristly, turgid at the seeds, shorter than the 2-edged beak: leaves pinnatifid.
Cultivated fields. *Curt. Lond. fasc. 5. t. 46. Mart. rust. t. 70.*
- nigra.* Siliques glabrous, square, appressed to the common stalk: upper-leaves linear-lanceolate, entire, glabrous.
Hedges. *Eng. bot. t. 969. Woodw. t. 181. Mart. rust. t. 51.*

- pyrenaica.* Siliques striate, rough: leaves runcinate, rough.
Pyrenees. *Allion ped. n. 960. t. 51. f. 1.*
Stem-leaves lanceolate: flowers small, yellow: siliques striate,
rough with hairs pointing downwards.
- pubescens.* Siliques pubescent, erect, with a compressed beak: leaves
lyrate, villous.
Sicily. *Arduin. spec. 1. p. 21. tab. 9.*
Plant villous: petals yellow, entire: siliques erect.
- bispida.* Siliques bristly, erect: leaves lyrate, very rough: stem
bristly.
Morocco. *Willd. sp. pl. 3. p. 556.* Plant bristly.
- chinensis.* Siliques smooth, somewhat jointed, spreading: leaves
lyre-runcinate, a little hairy.
China. *Arduin. spec. 1. p. 23. t. 10.*
Stem bristly below: flowers small, white.
- juncea.* Branches fascicled: upper-leaves lanceolate, very entire.
Afia; China. *Jacq. hort. t. 171.* Root-leaves jagged.
- Allioni.* Siliques ovate-oblong, spreading: leaves pinnatifid, with
cut divisions.
—— *Jacq. hort. t. 168.* Siliques wrinkled, glaucous.
- crucoides.* Siliques smooth, equal: leaves lyrate, oblong, glabrous:
stem rough.
Italy; Spain. *Jacq. hort. t. 170.* Petals white.
- cornua.* Siliques smooth, spreading: radical-leaf lyrate, with a very
large ovate deeply toothed terminal lobe.
Japan; China. *Thunb. Jap. 261. Willd. 3. p. 557.*
Plant glabrous: flowers white: siliques linear.
- hispanica.* Leaves doubly pinnate, with linear segments.
Spain. *Hort. cliff. 338.*
- japonica.* Siliques smooth, erect: leaves cut-pinnatifid, glabrous.
Japan. *Thunb. Jap. 262. Willd. 3. p. 558.*
Plant glabrous: leaves acute, rounded at the angles.
- incana.* Siliques smooth, appressed to the common stalk: lower-
leaves lyrate, rough; upper-ones lanceolate: stem
rough.
South of Europe. *Jacq. hort. t. 169. Herm. parad. t. 115.*
Leaves on long petioles, very hairy, hoary; the lobes ovate, de-
current, toothed: flowers small, yellow.
- frutescens.* Siliques linear, smooth: lower-leaves oblong, toothed;
upper-ones lanceolate, entire: stem glabrous, shrubby.
Madeira. *Anon Kew. 2. p. 404. Willd. 3. p. 559.*
- radicata.* Root-leaves deeply lyrate, bristly; those of the stem pin-
nate: branches wand-like, glabrous: siliques subu-
late, turgid at the seeds, spreading.

Algeira. *Desfont. atl. 2. p. 98. tab. 167.*

Stem bristly at the base: *leaves* with alternate remote obtuse unequally toothed divisions: *flowers* pale yellow: *siliques* glabrous, mucronate.

- laevigata.* Siliques smooth, spreading: leaves lyrate, glabrous; the upper-ones lanceolate: stem smooth.
Spain; Portugal. *Amæn. acad. 4. p. 281.*

1281. RAPHANUS. *Siliques* cylindrical, swelling at the seeds, somewhat jointed: glands 2 between the shorter stamina and the pistil, and 2 between the longer stamina and the calyx: *calyx* closed. *Radish.*

- sativus.* Leaves lyrate: siliques cylindrical, swelling into knobs, 2-celled.

1. Root long. *Common Radish. Blackw. t. 81.*

2. Root orbicular, white. *Turnep-rooted Radish.*

3. Root orbicular, black. *Black Spanish Radish.*

China. *Plant* rough: *seeds* with raised dots.

- * *Raphanis-trum.* Leaves lyrate: siliques cylindrical, jointed, smooth, 1-celled.

Corn fields. *Eng. bot. t. 356. Curt. Lond. fasc. 4. t. 46.*

- caudatus.* Leaves lyre-runcinate: siliques 1-celled, depressed, longer than the plant.

Final. *Linn. dec. 3. t. 10. Siliques 2 or 3 feet long.*

- sibiricus.* Siliques cylindrical, swelling into knobs, villous: leaves linear, pinnatifid.

Siberia. *Murr. Conn. Gætt. 1775. p. 48. t. 11.*

Plant small: *corol* large, yellow: *siliques* pedicelled.

- tenellus.* Siliques subulate, jointed, 2-celled, glabrous: leaves glabrous, lanceolate, toothed; the lower-ones pinnatifid.

Near the Caspian sea. *Pull. it. 3. app. n. 105. t. L. f. 3.*

Plant minute: *flowers* small, purplish: *siliques* rough.

- arcuatus.* Siliques subulate, curved, 2-celled, smooth: leaves oblong-lanceolate, toothed.

Willd. 3. p. 562. *Desfont. atl. t. 162?*

Leaves glabrous: *corol* violet: *siliques* striate.

- lanceolatus.* Siliques 2-celled, inflated, smooth, with a square beak: leaves oblong-lanceolate, slightly toothed at top.

Antilly Islands. *Willd. 3. p. 562. n. 7.*

Plant glabrous: *stem* flexuous: *siliques* a little square.

- pilosus.* Siliques cylindrical, smooth, jointed, 1-celled: leaves linear, pinnatifid at the base: stem bristly and hairy.

Guinea. *Willd. 3. p. 562. Leaves* glabrous.

1282. **CORDYLOCARPUS.** *Siliques* cylindrical, swelling into knobs, jointed; the upper-most joint distinct: *calyx* closed.

muricatus. Siliques smooth, 1-celled, spreading, with the terminal joint muricate: leaves somewhat lyrate.

Algeria. *Desfont. atl. 2. p. 79 t. 152.*

Stem bristly and rough beneath: *leaves* oblong, glabrous.

laevigatus. Siliques smooth, 2 celled, appressed; the terminal joint glabrous: leaves pinnatifid.

Archipelago *Tourn. it. 1. t. 35. Gærtn. sem. 2. t. 143. f. 9.*

Plant glabrous: *leaves* somewhat fleshy, with linear entire channelled segments: *flowers* red.

1283. **CLEOME.** *Siliques* 1-celled, 2 valved: all the *petals* ascending: *glands* 3, 1 at each division of the *calyx* except the lowest.

juncea. Shrubby, leafless: corymbs lateral: *stamina* 8, elongated, gynandrous: *siliques* linear, downy.

The Cape. *Branches* rigid: *leaves* minute scales: *style* permanent, long, tubular, bearing the filaments in a whorl.

heptaphylla. Flowers gynandrous: leaves with about 7 leaflets: stem prickly.

Indies. *Stem* with grooved prickly viscid branches: *leaves* pubescent, in 5—7 divisions: *brasses* lunate.

pentaphylla. Flowers gynandrous: leaves in 5 divisions: stem unarmed.

Indies. *Jacq. hort. t. 24. Rheed. Mal. 9. t. 24.*

Leaflets obovate, acute, finely serrate; floral-leaves ternate, obtuse, entire: *siliques* rough with rigid hairs.

triphylla. Flowers gynandrous: leaves ternate: stem unarmed.

Indies. *Herm. lugdb. t. 565 Sinapisitrum.*

Terminal leaflet large, spear-shaped: *stamina* 6.

polygama. Upper-flowers male, tetrandrous: leaves ternate; the leaflets sessile and somewhat prickly at the edge.

Jamaica. *Sloane Jam. 1. p. 194 t. 124. f. 1. Sinapisitrum.*

Lowest flower fertile: *siliques* sessile in the calyx.

icosandra. Flowers with 18—24 *stamina*: leaflets 5.

Ceylon. *Burm. Zeyl. t. 99. Rumph. amb. 5. t. 96. f. 3.*

Plant viscid: *leaflets* ovate-lanceolate, entire, rough.

viscosa. Flowers with 10—15 *stamina*: leaflets 5 and 3.

Ceylon; Malabar. *Rheed. Mal. 9 t. 23. Mart. cent. t. 25.*

Stem villous, viscid: *leaflets* unequal, entire, somewhat rhombic.

dodecandra. Flowers with 10—14 *stamina*: all the leaves ternate.

Indies. *Sloane Jam. 1. p. 149, t. 124 f. 1. Sinapisitrum.*

Stem and *siliques* viscid-pubescent: *leaflets* elliptic, smooth.

- felina*. Flowers with many stamina: leaves ternate, wedge-form, clothed with appressed bristles dilated at the base and pointing upwards: flowers axillary, solitary, peduncled: filiques linear, compressed.
Ceylon. *Plant* bristly: *corol* angular, red: *filiques* short, linear, compressed, glabrous.
- chelidonii*. Rough-haired: flowers with many stamina: leaflets 5 or 7, wedge-form, rough: racemes terminal: filiques filiform.
East Indies. *Plant* very bristly: *calyx* 3 or 5-parted: *corol* red: *stamina* yellow: *filique* filiform, glabrous.
- gigantea*. Flowers hexandrous: leaflets 7: stem unarmed.
Guinea. *Jacq. obs.* 4. p. 1. tab. 76.
Plant pubescent: *leaflets* lanceolate, entire, silky above.
- aculeata*. Flowers hexandrous: leaves ternate, very entire: stipules becoming spinous.
America. *Floral-leaves* simple: *siliques* cylindrical.
- spinosa*. Flowers hexandrous: leaflets 7 and 5: stem spinous.
South America. *Marcgr. bras.* 33. t. 34.
Leaves nearly glabrous: *spines* from the 2 stipules.
- serrata*. Flowers hexandrous: leaves ternate, with linear-lanceolate serrate leaflets.
South America. *Jacq. Amer.* t. 190. f. 43.
- ornithopodoides*. Flowers hexandrous: leaves ternate, with oval lanceolate entire leaflets.
Levant. *Dill. elth.* t. 266. f. 345. *Buxb. cent.* 1. t. 9. f. 24.
Stem hairy: *flowers* yellow: *silique* jointed when ripe.
- violacea*. Flowers hexandrous: leaves ternate and single; leaflets lance-linear, very entire.
Portugal. *Gærtn. fruct.* 1 t. 76. f. 6. *Riv. tetr.* t. 75. f. 2.
Plant viscid-pubescent: *siliques* subulate.
- arabica*. Flowers hexandrous: leaves ternate, lanceolate, obtuse: filiques fusiform, viscid and rough.
Arabia. *Linn. dec.* 3. tab. 8.
Plant viscid and rough: *leaves* rough underneath.
- tenella*. Flowers hexandrous: leaves ternate, linear-filiform.
East Indies. *Pluk. phyt.* t. 224. f. 3. *Sinapisitrum*.
- filifolia*. Flowers hexandrous: leaflets 7 and 3, filiform.
Arabia Felix. *Vahl. symb.* 1. p. 48.
Stem erect, weak, with minute elevated dots towards the top: *petiole* shorter than the leaves.

guianensis. Flowers hexandrous: leaves simple, linear-filiform, sessile.
Guiana. *Aubl. Gui.* 2. p. 675. t. 237.

Leaves pointed, glabrous: *flowers* axillary, yellow.

monophylla. Flowers hexandrous: leaves simple, ovate-lanceolate, petioled.

India. *Burm. Zeyl.* t. 100. f. 2. *Rheed. Mal.* 9. t. 34.

Peduncles axillary, solitary, 1-flowered: *corol* yellow.

capensis. Flowers hexandrous: leaves simple, linear-lanceolate, sessile: stem angular.

The Cape; India. *Stem* stiff: *leaves* glabrous.

procumbens. Flowers hexandrous: leaves simple, lanceolate, petioled: stems procumbent.

West Indies. *Sloane Jam.* 1. t. 123. *Jacq. Amer.* t. 120.

Leaves acute, glabrous: *flowers* axillary, solitary; *peduncles* longer than the petioles, 1-flowered, purple: *corol* yellow: *siliques* pedicelled, erect: *seeds* prickly, black.

CLASS XVI. MONADELPHIA.

ORDER I. TRIANDRIA.

1287. GALAXIA. *Style 1: spathe 1 or 2-leaved: corol 1-petalled, 6-cleft.*
1285. SISYRINCHIUM. *Style 1: spathe 2-leaved: petals 6, nearly equal.*
1286. FERRARIA. *Style 1: spathe 2-leaved: petals 6, the 3 outer-ones broader.*
1288. APHYTEIA. *Style 1: calyx 3-cleft: petals 3: berry many-seeded.*
1284. TAMARINDUS. *Style 1: calyx 4-parted: petals 3: legume.*

ORDER II. PENTANDRIA.

1297. ERODIUM. *Style 1: fruit beaked, separating into 5 capsules: calyx 5-leaved: corol 5-petalled: nectariferous scales 5.*
1290. SYMPHONIA. *Style 1: berry 5-celled, 5-seeded: calyx 5-leaved: petals 5.*
1289. OZOPHYLLUM. *Style 1: Capsules 5-celled: calyx 5-toothed: corol 5-petalled, funnel-form.*
1295. OCHROMA. *Style 1: capsule 5-celled: calyx double: petals 5: antheræ antractuous.*
1291. LERCHEA. *Style 1: capsule 3-celled, many-seeded: calyx 5-cleft: corol 1-petalled.*
1292. WALTHERIA. *Style 1: capsule 1-celled, 1-seeded: calyx double: petals 5.*
1296. PASSIFLORA. *Styles 2: gourd pedicelled: calyx 5-parted: petals 5, inserted into the calyx: nectaries slender filaments.*
1293. HERMANNIA. *Styles 5: capsule 5-celled: calyx 5-cleft: petals 5, hooded, oblique: filaments dilated.*
1294. MELOCHIA. *Styles 5: capsule 5-celled, 1-seeded: calyx often double: petals 5, spreading: filaments subulate.*

† Linum. Anagallis. Lyfimachia. Pelargonium betonicum, &c. Geranium pusillum. Mahernia. Leca. Aynia. Buttneria.

ORDER III. HEPTANDRIA.

1298. PLARGONIUM. *Style 1: fruit beaked, separating into 5 capsules: calyx 5-cleft, 1 of the divisions with a nectariferous tube running down the peduncle: petals 5, unequal.*

ORDER IV. OCTANDRIA.

1300. AITONIA. *Style 1: berry dry, 1-celled: calyx 4-parted: petals 4.*
1299. PISTIA. *Style 1: capsule 1-celled: calyx spathaceous, 1-leaved: corol 0.*
- + *Erica monadelpha. Guarea. Perfoonia:*

ORDER V. DECANDRIA.

1305. GERANIUM. *Style 1: fruit beaked, separating into 5 capsules: calyx 5-leaved: petals 5, regular.*
1304. SENRÆA. *Style 1: capsule 5-celled: calyx double: petals 5.*
1301. CRINODENDRUM. *Style 1: capsule 1-celled, 3-seeded: calyx 0: petals 6.*
1302. CONNARUS. *Style 1: capsule 1-seeded: calyx 5-parted, equal: petals 5.*
1303. HUGONIA. *Styles 5: drupe 1-seeded: calyx 5-parted, unequal: petals 5.*
- + *Oxalis. A few of the Papilionaceous tribe. Gærtneria, Trichilia. Turraa. Sandoricum, Swietenia. Strigilia. Melia. Samyda. Casearia. Erythroxylon. Malpighia. Banisteria. Hirza. Triopteris. Averrhoa.*

ORDER VI. ENDECANDRIA.

1306. BROWNEA. *Style 1: calyx 2-cleft: corol double, the outer 5-cleft, inner 5-petalled: legume.*

ORDER VII. DODECANDRIA.

1308. MONSONIA. *Style 1: calyx simple, 5 leaved: petals 5, toothed: fruit beaked, separating into 5 capsules.*
1310. HELICTERIS. *Style 1: calyx simple, 5-cleft: petals 5, or 0: capsules 5, spiral.*
1309. PLAGIANTHUS. *Style 1: calyx simple, 5-cleft: petals 5: berry.*
1307. ACIA. *Style 1: calyx simple, 5-parted: petals 5: drupe.*

1315. *PTEROSPERMUM*. *Style 1: calyx simple, 5-parted: petals 5: capsule 5-celled: seeds winged.*
1311. *CIENTFUEGIA*. *Style 1: calyx double, the outer 12-leaved: petals 5: capsule 3-celled, 3-seeded.*
1314. *PENTAPETES*. *Style 1: calyx double, the outer 3-leaved: petals 5: capsule 5-celled, many-seeded, with the partitions contrary.*
1313. *DOMBEYA*. *Style 1: calyx double, the outer 3-leaved: petals 5: capsules 5, united, 2-valved.*
1312. *ASSONIA*. *Styles 5: calyx double, the outer 1-leaved: petals 5: capsules 5, united, 2-valved.*

+ *Halefia. Styra. Sterculia. Kleinhofia.*

ORDER VIII. POLYANDRIA.

1316. *CAROLINEA*. *Style 1: calyx simple, somewhat truncate: capsule woody, 1-celled, many-seeded.*
1335. *GORDONIA*. *Style 1: calyx simple, 5-leaved: capsule 5-celled: seeds 2, winged.*
1341. *CROSSOTYLIS*. *Style 1: calyx simple, 4-parted: berry 1-celled, many-seeded.*
1339. *M. RISONIA*. *Style 1: calyx simple, 2-cleft: berry capsular, pedicelled: petals 4.*
1343. *GUSTAVIA*. *Style 1: calyx simple, 4 or 6-cleft: berry dry, 4 or 5-celled, many-seeded: petals 4 or 6.*
1338. *MYRODIA*. *Style 1: calyx simple, bursting: drupe 2 or 3-celled: petals 5.*
1342. *BARRINGTONIA*. *Style 1: calyx simple, 2-leaved: drupe with a 4-sided nut: petals 4.*
1337. *MESUA*. *Style 1: calyx simple, 4-leaved: nut 4-sided, 1-seeded: petals 4.*
1340. *POURRETIA*. *Style 1: calyx simple, 5-parted: drupe dry, 1-seeded, 5-winged: petals 5.*
1334. *STUARTIA*. *Styles 5: calyx simple, spreading: capsule 5-celled: seeds solitary.*
1321. *PALAVIA*. *Style 1: calyx simple, 5 cleft: capsules clustered without order, 1-seeded.*
1319. *LAGUNÆA*. *Style 1: calyx simple, 5-cleft: capsule 5-celled, with contrary partitions.*
1320. *SIDA*. *Style mostly 1: calyx simple, angular: capsule many-celled, 1-seeded.*
1318. *BOMBAAX*. *Style 1: calyx simple: capsule 5-celled, many-seeded: style undivided: seeds woolly.*
1317. *ADANSONIA*. *Style 1: calyx simple: capsule 10-celled, many-seeded, filled with farinaceous pulp.*

1330. *GOSSYPIUM*. *Style 1: outer-calyx 3-cleft: capsule 3 or 4-celled, many-seeded, united.*
1326. *RUZIA*. *Styles 10: outer-calyx 3-leaved: capsules 10, 2-celled, placed in a globular whorl.*
1325. *LAVATERA*. *Styles many: outer-calyx 3-cleft: capsules placed in a whorl, 1-seeded.*
1322. *MALACHRA*. *Styles many: outer-calyx 3-leaved: capsules 5, 1-seeded.*
1324. *MALVA*. *Styles many: outer-calyx 3-leaved: capsules placed in a whorl, 1-seeded.*
1327. *MALOPE*. *Styles many: outer-calyx 3-leaved: capsules clustered without order, 1-seeded.*
1329. *URENA*. *Style 1: outer-calyx 5-cleft: capsule 5-celled, 5-partible; the cells closed.*
1332. *PAVONIA*. *Style 1: outer-calyx 8-leaved: capsule 5-celled, 5-partible; the cells 2-valved.*
1331. *HIBISCUS*. *Style 1: outer-calyx 8-leaved: capsule 5-celled, many-seeded.*
1333. *ACHANIA*. *Style 1: outer-calyx 8-leaved: berry 5-celled.*
1328. *KITAIBELIA*. *Styles many: outer-calyx 7 or 9-cleft: capsules clustered in a 5-lobed head, 1-seeded.*
1323. *ALTHÆA*. *Styles many; outer-calyx 6—9-cleft: capsules placed in a whorl, 1-seeded.*
1336. *CAMELLIA*. *Style 1: outer-calyx imbricate: capsule with the cells many-seeded: style undivided.*

† *Hypericum Brathys*. A few *Mimosa*.

ORDER I. TRIANDRIA: 3 united styles.

1284. TAMARINDUS. *Calyx* 4-parted: *petals* 3: *nectary* with 2 short bristles under the filaments: *style* 1: *legume* filled with pulp.

Tamarind-tree.

indicus.

TAMARINDUS.

India; Arabia. *Woodw. t.* 166. *Blackw. t.* 201. *Jacq. Am. t.* 10.
Tree with numerous spreading branches: *leaves* alternate, evenly pinnate; leaflets opposite, oblong, obtuse, entire: *flowers* in lateral racemes: *calyx* spreading, deciduous, yellowish: *petals* yellow with red veins: *legume* roundish-compressed, containing 3 or 4 flattish angular shining seeds lodged in a dark pulp, and covered by several rough longitudinal fibres.

1285. SISYRINCHIUM. *Spathe* 2-leaved: *calyx* 0: *petals* 6, nearly equal: *style* 1: *capsule* 3-celled, inferior.

elegans.

Scape round, 1-flowered, simple: leaf solitary, radical, linear, pointed, twice as long as the scape: *petals* oblong, acute.

The Cape. *Jacq. hort. schænb. 1. t.* 12. *Moræa.*

Scape clothed with alternate oblong pointed spathes

collinum.

Scape round, 2 or 3-flowered, somewhat branched: leaf solitary, on the scape, linear-pointed, longer than the scape: *petals* oblong, acute.

The Cape. *Jacq. ic. 2. f.* 226. *Moræa.*

grandiflorum.

Scape round, simple: *spathe* about 3-flowered: *petals* obovate, obtuse: *leaves* lanceolate, plaited.

Peru. *Cavan. diff. 6. p.* 346. *t.* 192. *f.* 2.

Root bulbous: *spathe* terminal, 2 or 3-flowered.

Bermudiana

Scape 2-edged, branched, leafy: *spathe* about 4-flowered, shorter than the flower: *petals* terminated by a point: *leaves* ensiform: *germ* hairy.

Bermudas. *Curt. mag. t.* 94. *Cavan. diff. 6. t.* 192. *f.* 1.

anceps

Scape with 2 winged edges, mostly simple, nearly leafless: *spathe* about 2-flowered, unequal, longer than the flowers: *petals* terminated by a point: *leaves* ensiform: *germ* glabrous.

Virginia. *Curt. mag. t.* 464. *Cavan. diff. 6. t.* 190. *f.* 2.

micranthum

Scape 2-edged, branched, leafy: *spathe* about 3-flowered, unequal: *petals* linear, ending in a point: *leaves* grassy, channelled.

Peru. *Cavan. diff. 6. t.* 191. *f.* 2. *Root* fibrous,

palmifolium Scape 2-edged: flowers spiked: leaves ensiform, nerved and plaited.

Brasil. Leaves plaited, with 5 or 6 protuberant nerves.

striatum. Scape 2-edged, leafy: flowers spiked: petals roundish-ovate, acute: leaves linear-ensiform.

Mexico. Cavan. *ic.* 2. t. 104. Jacq. hort. Schönbr. 1. t. 11.

Scape simple and branched: spathes aggregate and forming a spike, each containing 3—5 flowers.

1286. FERRARIA. Spathe 2 leaved: calyx 0: petals 6, the 3 outer-ones broader: style 1: capsule 3-celled, inferior.

undulata. Stem branched: leaves equitant, ensiform: petals equal in length, undulate and curled; the inner-ones half as broad.

The Cape. Curt. mag. t. 144. Cavan. *diff.* 6. t. 190. f. 1.

Leaves glaucous, sheathing each other: stigma ciliate.

Ferrariola. Stem simple: leaves equitant, ensiform; the lower-ones narrower: petals equal in length, undulate, the inner-ones half as broad.

The Cape. Willd. *sp. pl.* 3. p. 581.

parvonia. Stem simple, flexuous: leaves equitant, ensiform, nerved: petals flat; the inner-ones half as long, and narrowed in the middle.

Mexico. Curt. mag. t. 532. Andrews *reposit.* t. 178.

Root bulbous: scape 1-flowered: petals spotted.

ixioides. Stem panicled at top: leaves ensiform, nerved: petals flat; the outer-ones half as long.

New Zealand. Willd. *sp. pl.* 3. p. 583.

Root fibrous: scape compressed: flowers small, white: spathes shorter than the peduncles: peduncles capillary.

1287. GALAXIA. Spathe 1 or 2 leaved: calyx 0: corol 1-petalled, 6-cleft, with a long tube: style 1: capsule 3-celled, inferior.

ovata. Nearly stemless: leaves oblong: spathe 1-valved, 1-flowered.

The Cape. Andrews *reposit.* t. 94. Cavan. *diff.* 6. t. 189. f. 2.

Bulb coated, hairy, striate, transversely reticulate: leaves oval-oblong, ciliate: flowers yellow.

graminea. Nearly stemless: leaves linear-filiform, dilated at the base: spathe 1-valved, 1-flowered.

The Cape. Cavan. *diff.* 6. t. 189. f. 3. Jacq. *coll.* t. 18. f. 2.

narcissoides. Stem erect: leaves linear-ensiform: spathe 2-valved, 1 or 2-flowered: flowers drooping.

Straits of Magellan. Cavan. *diff.* 6. t. 191. f. 3. Sisyrrinchium.

1288. APHYTEIA. *Calyx* large, funnel-form, 3-cleft: *petals* 3, inserted into and shorter than the calyx: *germ* inferior: *berry* 1-celled, many-seeded: *seeds* imbedded.

Hydnora.

APHYTEIA.

Vegetable without leaves, stem or root, parasitical on the roots of the *Euphorbia mauritanica*: *flowers* sessile, coriaceous, succulent, and eaten by the Hottentots.

ORDER II. PENTANDRIA: 5 united *stamina*.

1289. OZOPHYLLUM. *Calyx* 5-toothed: *corol* 5-petalled, funnel-form: *style* 1: *capsule*? 5-celled.

trifoliatum.

OZOPHYLLUM.

Guiana. *Aubl. Gui.* 2. t. 277. *Cavan. diff.* 7. t. 206.

Shrub with alternate leaves: *leaves* ternate, with oblong pointed entire glabrous leaflets: *flowers* white, in a terminal corymb.

1290. SYMPHONIA. *Calyx* 5-leaved: *corol* 5-petalled, globular, twisted: *style* 1: *berry* 5-celled; the cells 1-seeded.

globulifera.

SYMPHONIA.

Guiana. *Aubl. Gui.* 2. p. 789. t. 313. *Moronobea*.

Tree branched: *leaves* approximate, at the ends of the branchlets, petioled, oblong, lanceolate, entire, glabrous, glaucous: *umbel* terminal, few-flowered, sessile: *petals* incumbent, forming a globe: *antheræ* sessile, alternating in a stellate manner with the 5 stigmata.

1291. LERCHEA. *Calyx* 5-toothed: *corol* funnel-form, 5-cleft: *antheræ* 5, seated on the tube of the germ: *style* 1: *capsule* 3-celled, many-seeded.

longicauda.

LERCHEA.

East Indies. *Shrub* irregular: *leaves* opposite, lanceolate, entire: *spike* terminal, filiform, very long.

1292. WALTHERIA. *Calyx* double, the outer lateral, 3-leaved, deciduous: *petals* 5: *style* 1: *capsule* 1-celled, 2-valved, 1-seeded.

americana. Leaves oval, plaited, acutely and unequally toothed, downy: heads of flowers peduncled.

Indies. *Cavan. diff.* 6. t. 170. f. 1. *Jacq. ic. rar.* 1. t. 130.

indica. Leaves oval, plaited, obtusely toothed, downy: heads sessile.

India. *Burm. Zeyl.* 149. t. 68. *Malvinda*.

Lophanthus. Leaves roundish-heart-shaped, ferrate, silky-downy, petioled: heads peduncled, imbricate with bractes.

Southern Islands. *Forst. prodr. n.* 252.

ovata. Leaves roundish-ovate, unequally toothed, downy: heads sessile.

Peru. *Cavan. ic.* 6. t. 160. f. 1. Heads without bractes.

angustifolia. Leaves oblong, obtuse, plaited, toothed, hoary: heads nearly sessile.

East Indies. *Cavan. diff.* 6. t. 170. f. 2. *Pluk. alm.* t. 150. f. 5.

Plant downy: heads on a short peduncle.

elliptica. Leaves lance-oblong, obtuse, plaited, toothed, downy: heads sessile.

East Indies. *Cavan. diff.* 6. p. 316. t. 171. f. 2.

1293. *HERMANNIA*. Calyx simple, 5-cleft: petals 5, spirally hooded: filaments lanceolate: styles 5: capsule 5-celled, many-seeded.

althæifolia. Leaves ovate, downy, plaited, crenate: lower-stipules ovate, upper-ones broad lanceolate: calyx angular.

The Cape. *Curt. mag.* t. 307. *Cavan. diff.* 6. t. 179 f. 2.

These are all shrubs, and natives of the Cape of Good Hope.

plicata. Leaves ovate, downy-hairy, plaited, wrinkled, toothed: stipules ovate, acute: calyx oblong-ovate.

The Cape. *Jacq. hort. schænb.* 2. t. 313 *H. althæifolia*.

All the stipules ovate, acute, sometimes 3-toothed at top.

candicans. Leaves roundish-ovate, obtuse, downy, whitish, crenate: stipules lance-subulate: calyx campanulate, spreading.

The Cape. *Jacq. hort. schænb.* 1. p. 63. t. 117.

Branches downy, white, flexuous: calyx downy.

disticha. Leaves roundish-ovate, obtuse, bristly-villous, toothed: stipules ovate, pointed: calyx angular.

The Cape. *Jacq. hort. schænb.* 1. p. 63. t. 118.

Leaves placed in two rows on the branches, obtuse.

salvifolia. Leaves oblong, rather obtuse, very entire, nearly sessile, downy-bristly, wrinkled: stipules lance-subulate: flowers without involucre.

The Cape. *Cavan. diff.* 6. p. 328. t. 180. f. 2.

Calyx short, not angular, with linear-lanceolate segments.

- micans.* Leaves oblong, very obtuse, truncate, toothed at top, petioled, downy-bristly, wrinkled: stipules lance-subulate: flowers involucred.
The Cape. *Jacq. hort. schænb.* 1. t. 119. *H. latifolia.*
Leaves thickly clothed with shining yellowish stellate fascicle hairs: peduncles many-flowered, nodding.
- involutrata* Leaves oblong, rather acute, very entire, nearly sessile, downy-bristly: stipules lance-subulate: calyx campanulate, invested with lanceolate bractes.
The Cape. *Cavan. diff.* 6. p. 328. t. 177. f. 1.
Peduncles 1-flowered: bractes longer than the calyx.
- scordifolia.* Leaves oblong, obtuse, crenate, petioled, downy underneath: stipules subulate: calyx spreading
The Cape. *Jacq. hort. schænb.* 1. p. 64. t. 120.
Leaves rough above with a few stellate hairs, whitish downy underneath: peduncles long, 2-flowered.
- denudata.* Leaves lanceolate, glabrous, triply nerved, ferrate at top, acute: stipules ovate, pointed.
The Cape. *Cavan. diff.* 6. t. 181. f. 1. *Jacq. hort.* 1. t. 122.
- disermæfolia.* Leaves lanceolate, downy, ferrate, rather obtuse, undulate at the margin: stipules subulate.
The Cape. *Jacq. hort. schænb.* 1. p. 65. t. 121.
Leaves whitish downy: peduncles 1-flowered.
- alnifolia.* Leaves obovate, wedge-form, truncate, emarginate, crenate at top: racemes terminal: peduncles about 3-flowered.
The Cape. *Curt. mag.* t. 299. *Cavan. diff.* 6. t. 179 f. 1.
Stipules lance-subulate: bractes linear-subulate.
- cuneifolia.* Leaves obovate, wedge-form, truncate, emarginate, toothed: racemes terminal: peduncles 1-flowered.
The Cape. *Jacq. hort. schænb.* 1. p. 66. t. 124.
Stipules and bractes ovate, pointed: calyxes appressed.
- holosericea.* Leaves oblong, wedge-form, downy, rounded and toothed at top: stipules lanceolate: racemes terminal, paniced.
The Cape. *Jacq. hort. schænb.* 3. p. 23. t. 292.
Leaves whitish: peduncles many or 2-flowered.
- birsuta.* Leaves wedge-form, oblong-obovate, unequally toothed at top: stipules half heart-shaped, pointed: racemes lateral: peduncles elongated, 2-flowered.
The Cape. *Schrad. et Wendl. fert. Angl.* 1. t. 4.
Stem and branches flexuous: leaves green above, white beneath.
- scabra.* Leaves wedge-form, oblong, unequally toothed, very entire at the base, rough above, downy beneath: stipules half heart-shaped, pointed.

The Cape. *Cavan. diff.* 6. t. 182. f. 2. *Jacq. hort.* 1. t. 127.

Stem rough: *leaves* toothed above the middle.

multiflora. Leaves wedge-form, oblong, truncate, toothed at top, nearly glabrous: stipules oblong, acute: calyx campanulate.

The Cape. *Jacq. hort. schænb.* 1. p. 69. t. 128.

Leaves green both sides: *peduncles* 1-flowered.

flammea. Leaves wedge-form, lanceolate, truncate, toothed at top, glabrous: racemes terminal: peduncles 2-flowered: calyx slightly reflected.

The Cape. *Jacq. hort. schænb.* 1. p. 69. t. 129.

Stem and *leaves* glabrous: *corol* orange-colour.

angularis. Leaves wedge-form, lanceolate, truncate, toothed at top, hairy underneath: calyx 5-angled.

The Cape. *Jacq. hort. schænb.* 1. p. 68. t. 126.

Stem rough: *leaves* fascicled, glabrous above: *peduncles* 2-flowered: *calyx* with 5 winged angles.

hysopifolia. Leaves wedge-form, lanceolate, obtuse, toothed at top, pubescent: calyx globular, inflated, reticulate.

The Cape. *Cavan. diff.* 6. t. 181. f. 3. *Giseck. ic. fasc.* 1. t. 16.

trifurcata. Leaves wedge-form, linear, obtuse, 3-toothed or entire at top, downy: calyx spreading.

The Cape. *Cavan. diff.* 6. t. 178. f. 2. *Jacq. hort.* 1. t. 125.

Leaves whitish downy both sides: *peduncles* 1-flowered.

odorata. Leaves wedge-form, lanceolate, obtuse, downy; the lower-ones acutely 3-toothed at top; the upper-ones very entire: calyx campanulate, spreading.

The Cape. *Aiton Kew.* 2. p. 412. *Willd.* 3. p. 597.

lanvandulifolia. Leaves lanceolate, obtuse, very entire or emarginate, downy: calyx angular.

The Cape. *Curt. mag.* t. 304. *Cavan. diff.* 6. t. 180. f. 1.

linifolia. Leaves linear: peduncles 1-flowered.

The Cape. *Mant.* 256. *Burm. prodr.* 18.

filifolia. Leaves linear-triangular, very entire.

The Cape. *Cavan. diff.* 6. t. 180. f. 3. *Jacq. hort.* 1. t. 123.

trifoliata. Leaves sessile, downy, wedge-form, inversely heart-shaped, crenate at top: stipules oblong, obtuse, very entire, as long as the leaves: calyx inflated.

The Cape. *Cavan. diff.* 6. p. 333. t. 182. f. 2.

Stem creeping: *leaves* ternate: *flowers* pendulous.

triphylla. Leaves ternate, wedge-form, truncate and toothed at top; the middle-leaflet petioled: stipules lance-subulate.

The Cape. *Cavan. diff.* 6. p. 333. t. 178. f. 3.

- procumbens.* Leaves oblong, pinnatifid-toothed: stem procumbent.
The Cape. *Cavan. diff.* 6. p. 329. t. 177. f. 2.
Peduncles 1-flowered: calyx campanulate, angular.
- vesicaria.* Leaves pinnatifid, tapering to the base, hairy underneath:
fruit inflated.
The Cape. *Cavan. diff.* 6. p. 331. t. 181. f. 2.
- grossulari-
folia.* Leaves lanceolate, pinnatifid.
The Cape. Peduncles 2-flowered.
- incisa.* Leaves pinnatifid, with linear-lanceolate entire segments:
petals with claws and deeply toothed.
—— *Willd.* 3. p. 599. Petals cut towards the claw.
1294. MELOCHIA. Calyx often double: petals 5,
spreading: filaments subulate: styles 5: capsule
5-celled, 1-seeded.
- pyramidata.* Flowers umbelled: capsules pyramidal, with 5 mucronate
angles: leaves naked.
Brasil. *Cavan. diff.* 6. t. 172. f. 1. *Jacq hort.* 1. t. 30.
Shrub with depressed diffuse branches: leaves alternate, ovate,
pointed, ferrate, glabrous: corol red.
- tomentosa.* Flowers umbelled, axillary: capsules pyramidal, with 5
mucronate angles: leaves downy.
2. Stem shrubby, erect. *Jacq. obs.* 2. t. 44 M. frutescens.
Jamaica. *Cavan. diff.* 6. t. 172. f. 2. *Sloane Jam.* t. 138. f. 2, 3.
Leaves ovate-lanceolate, crenate, plaited, downy.
- crenata.* Leaves roundish, crenate, downy, marked with lines:
umbels axillary and terminal, peduncled.
South America. *Vabl. symb.* 3. p. 86. t. 68.
Branches downy: leaves petioled: stipules ovate.
- depressa.* Flowers solitary: capsules depressed, 5-sided, with the an-
gles obtuse and ciliate.
Havannah. *Cavan. diff.* 6. t. 173. f. 1?
Leaves angular, like those of the Currant-bush.
- truncata.* Flowers solitary: capsules depressed: leaves wedge-form,
toothed at top.
East Indies. *Willd. sp. pl.* 3. p. 601. n. 5.
Branches divaricate, downy: leaves mucronate, glabrous above,
hairy underneath: flowers peduncled.
- venosa.* Peduncles distinct, terminal, many-flowered: leaves ovate,
ternate, veined, downy underneath: stem hairy.
Jamaica. *Swarz prodr.* 97. *Fl. ind. occ.* 4. p. 1137.
Branches erect, hairy: corol yellow.
- hirsuta.* Spikes terminal, contracted: leaves ovate, acute, vil-
lous.
—— *Cavan. diff.* 6. t. 175. f. 1. Leaves not pointed,

concatenata Racemes terminal, crowded: capsules globular, sessile: leaves ovate-lanceolate, toothed, glabrous.
Indies. *Cavan. diss. t. 175. f. 2. Pluk. alm. t. 9. f. 5.*
Leaves slightly lobed at the base on both sides.

odorata. Corymbs peduncled, axillary: leaves ovate, somewhat heart-shaped, doubly ferrate, pointed, glabrous.
South Sea Islands. *Cavan. diss. 6. p. 320. t. 173. f. 2.*
Peduncles clothed with very fine cinereous down.

lupulina. Racemes crowded, axillary: calyx inflated, membranaceous: leaves ovate-heart-shaped, cut-ferrate, downy underneath.
Jamaica. *Swariz prodr. 97. Fl. ind. occ. 2. p. 1141.*
Racemes 2 or 3 crowded together: corol white.

caracasana. Flowers in heads, nearly sessile, axillary and terminal: leaves heart-shaped, crenate, downy underneath.
Caraccas. *Jacq. ic. rar. 3. t. 507.* Flowers white.

nodiflora. Flowers conglomerate, axillary: capsules globular: leaves ovate, pointed, glabrous.
Jamaica. *Sloane Jan. 1. t. 135. f. 2. 2) Cav. diss. 6 t. 174. f. 1.*
Shrub with purple slightly flexuous branches.

corchori-joha. Flowers in heads, sessile: capsules roundish: leaves somewhat heart-shaped, slightly lobed.
India. *Dill. elib. t. 176. f. 217. Rheed. Mal. 9. t. 73.*
Branches rough: leaves naked, plaited, ferrate.

supina. Flowers in heads: leaves ovate, ferrate: stems procumbent.
India. *Pluk. alm. 14. t. 132. f. 4.* Alcea.

1295. OCHROMA. Calyx double, the outer 3-leaved: petals 5: antheræ antraçtuous: capsule 5-celled, many-seeded: seeds invested with wool.

Lagopus. OCHROMA.

West Indies. *Cavan. diss. 5. t. 153. Aët. Holm. 1792. t. 6.*
Tree 20—40 feet high, with spreading fragile branches: leaves large, scattered, rounded and hearted, with 5—7 angles, downy underneath: peduncles terminal, solitary, 1 flowered: flowers pale rufous: capsule a foot or more long, somewhat cylindrical, with 5 grooves and 10 angles: wool of the seeds pale rufous.

1296. PASSIFLORA. Calyx 5-parted, coloured: petals 5, inserted into the calyx: nectary a crown of filaments furrounding the stamina and styles: styles 3: gourd pedicelled. Passion-flower.

A. *Leaves undivided.*

- serratifolia.* Leaves ovate, veined, slightly ferrulate: petioles with 2 glands: involucre 3-leaved.
 Surinam. *Cavan. diss.* 10. t. 279. *Jacq. hort.* t. 10.
Stipules linear, pointed: *peduncles* 1-flowered, solitary.
- pallida.* Leaves ovate, very entire, triply nerved, veined: petioles with 2 glands: flowers without petals or involucre.
 Brasil. *Plum. Amer.* t. 89. *Moris.* 3. *set.* 1. t. 2. f. 4.
Flowers large, pale, axillary, 2 together.
- adulterina.* Leaves oblong, slightly denticulate, veined, downy underneath: petioles without glands: calyx tubular: involucre 3-leaved.
 New Granada. *Smith ic. ined.* 1. t. 24. *Cav. diss.* 10. t. 278.
Stem angular: *leaves* revolute: *flowers* pendulous.
- cuprea.* Leaves elliptic, very entire, obtuse, 3-nerved: petioles without glands: involucre 0.
 Bahamas. *Jacq. ic. rar.* 3. t. 606. *Catesb. Car.* 2. t. 93.
Stems 3-sided; *flowers* axillary: *crown* simple.
- tiliifolia.* Leaves heart-shaped, very entire, veined: petioles without glands: involucre 3-leaved.
 Peru. *Cavan. diss.* 10. t. 285. *Feuill. Peru.* 1. t. 12.
Flowers red: *nectaries* red with a white ring.
- maliformis.* Leaves oblong-ovate, hearted, triply nerved, veined, very entire: petioles with 2 glands: involucre 3-leaved, larger than the flower.
 West Indies. *Jacq. hort.* 2. t. 180. *Plum. Amer.* t. 82.
Stem triangular: *petals* white: *nectaries* blue.
- quadrangularis.* Leaves oblong-ovate, somewhat hearted, very entire, veined: stipules roundish-ovate: involucre 3-leaved: stem membranaceous, square: peduncle triangular.
 Jamaica. *Cavan. diss.* 10. t. 283. *Linn. Transf.* ii. t. 3. f. a.
Stem roughish: *petioles* with generally 6 glands: *involucres* ovate, concave, ferrate towards the base: *pedicel* cylindrical: *calyx* obtuse, without awns: *nectaries* of 2 principal rows and 4 or 5 imperfect ones.
- alata.* Leaves oblong-ovate, somewhat hearted, very entire, veined: stipules lance-falcate, slightly ferrate: involucre 3-leaved: stem membranaceous, square: peduncle cylindrical.
 West Indies. *Curt. mag.* t. 66. *Linn. Transf.* ii. t. 3. f. b.
Petioles with generally 4 glands: *involucres* lanceolate, with glandular serratures: *pedicel* thicker at the insertion into the base of the flower: *calyx* awned: *nectaries* of 2 principal rows and 2 imperfect ones close together, with another remote single row below.

- laurifolia.* Leaves oblong, very entire, veined: petioles with 2 glands: involucre 3-leaved, toothed at top: peduncle cylindrical at the base, becoming triangular at the top.
 Surinam. *Cavan. diss.* 10. t. 284. *Linn. Transf.* ii. t. 4. f. c.
Involucres obovate, concave, with glandular serratures at the sides and simple ones at the top: *pedicel* nearly conical: outer row of *nectaries* shorter, spreading, flattish at top: *calyx* awned.
- coccinea.* Leaves ovate, ferrate, hoary underneath, generally triply nerved, veined: petioles with 4 glands: involucre 3-leaved, ferrate, larger than the flower.
 Guiana. *Cavan. diss.* 10. t. 280. *Aubl. Gui.* 2. t. 324.
Leaves heart-shaped: *flowers* scarlet: *fruit* yellow.
- mucronata.* Leaves oblong-ovate, somewhat hearted, very entire, obtuse, triply nerved, veined: petioles with 2 glands: stipules roundish-ovate, mucronate: involucre 3-leaved, toothed.
 Brasil. *Cavan. diss.* 10. p. 453. *tab.* 282.
Involucres oblong, veined, obtusely and deeply toothed.
- glandulosa.* Leaves oblong, pointed, entire, veined: petioles with 2 glands: involucre 3-leaved, lanceolate, with 2 glands at the base: calyx tubular.
 Cayenne. *Cavan. diss.* 10. p. 453. t. 281.
Nectary composed of very short subulate teeth.
- multiflora.* Leaves oblong, very entire, acute, triply nerved, veined: petioles with 2 glands: peduncles aggregate, axillary: flowers without petals or involucre.
 St. Domingo. *Cavan. diss.* 10. p. 448. t. 272.

B. *Leaves 2-lobed.*

- perfoliata.* Leaves heart-shaped, 2-lobed, obtuse, mucronate; the upper-ones nearly clasping the stem: petioles without glands: calyx campanulate: petals twice as long as the divisions of the calyx.
 Jamaica. *Sloane Jam.* 1. t. 142. f. 3, 4. *Jacq. hort.* 2. t. 182.
Leaves dotted at the inner side of the lobes underneath.
- rubra.* Leaves heart-shaped, 2-lobed, acute, mucronate, pubescent underneath: petioles without glands: fruit obovate.
 West Indies. *Cavan. diss.* 10. t. 268. *Jacq. ic. rar.* 1. t. 186.
- normalis.* Leaves 2-lobed, emarginate at the base, with linear obtuse divaricate lobes, and a middle obsoletely mucronate one.
 South America. *Petioles* without glands.

- lunata.* Leaves heart-shaped, 2-lobed, obtuse, glabrous: petioles without glands: peduncles axillary, in pairs: filaments of the crown clavate.
Jamaica; Mexico. *Cavan. diss.* 10. t. 288. *Smith ic.* 1. t. 1.
Involucre of 3 very small lanceolate entire leaves: *leaves* dotted: principal rays of the *crown* 1-rowed, quadrangular; short-ones 1-rowed, regular, clavate.
- murucuja.* Leaves 2-lobed, obtuse, emarginate: petioles without glands: crown campanulate, truncate, very entire.
West Indies. *Cavan. diss.* 10. p. 456. t. 282.
Leaves dotted beneath, with an intermediate bristle.
- Vespertilio.* Leaves wedge-form, 2-lobed, pointed, divaricate with 2 glands at the base: petioles without glands: involucre 6.
America. *Cavan. diss.* 10. t. 271. *Dill. elth.* t. 137. f. 164.
Leaves dotted underneath, without the intermediate bristle.
- oblongata.* Leaves oblong, dotted underneath, rounded at the base, lunate by 2 very short erect lobes at top, with a very minute bristle between them.
Jamaica. *Swartz prodr.* 97. *Fl. ind. occ.* 2. p. 1135.
Stem roughish: *leaves* with 2 longitudinal rows of impressed dots underneath: *flowers* axillary, solitary.
- capsularis.* Leaves heart-shaped, 2-lobed, acute, mucronate: petioles without glands: fruit oblong, 6-sided, tapering to both ends.
Jamaica. *Plum. spec.* 6. ic. 138. f. 2. Granadilla.

C. Leaves 3-lobed.

- rotundifolia* Leaves roundish, very shortly and obtusely 3-lobed, dotted and downy underneath: petioles without glands: petals half as long as the calyx.
South America. *Cavan. diss.* 10. t. 290. *Jacq. obs.* 2. t. 46. f. 1.
Leaves with a row of dots between the nerves underneath.
- orbiculata.* Leaves roundish, very shortly and obtusely 3-lobed, dotted and glabrous underneath: petioles without glands, slightly tendrilled: flower without petals: crown cylindrical, truncate.
St. Domingo. *Cavan. diss.* 10. p. 456. t. 286.
- punctata.* Leaves roundish, somewhat hearted, obtuse, obsoletely 3-lobed, glabrous, dotted: petioles without glands: petals half as long as the calyx.
Peru. *Cavan. diss.* 10. p. 446. t. 269. *Feuill. Peru.* t. 11.
Outer-row of the *crown* clavate, middle-one capillary and shorter, inner-one plaited and truncate: *flower* white.

- lutea.* Leaves heart-shaped, 3-lobed, obtuse, glabrous: petioles without glands: peduncles axillary, in pairs: petals half as broad as the calyx.
Jamaica. *Cavan. diss.* 10. t. 267. *Jacq. ic.* 3. t. 607.
Leaves without glands, very entire.
- angustifolia* Lower-leaves 3-lobed, pointed; upper-ones undivided, lanceolate: petioles with 2 glands: flowers without petals.
Jamaica. *Cavan. diss.* 10. t. 270. *Jacq. hort.* 2. t. 181.
Leaves glabrous, very entire: *flowers* solitary.
- minima.* Leaves 3-lobed, glabrous; the lobes lanceolate, with the middle-one larger; petioles with 2 glands: peduncles in pairs, as long as the petiole: petals 0: calyx reflected.
Curassao. *Cavan. diss.* 10. t. 266. *Jacq. hort.* t. 20.
Leaves slightly pubescent: *flowers* minute: *stem* a little corky at the base: *nectaries* recurved.
- suberosa.* Leaves 3-lobed, glabrous; the lobes long, with very short lateral-ones: peduncles mostly in pairs, longer than the petiole: flowers without petals: stem corky at the base.
Antillys. *Cavan. diss.* 10. t. 265. *Jacq. hort.* t. 163.
Stem corky, cleft, white: *flowers* white, axillary.
- peltata.* Leaves peltate, deeply 3-lobed, glabrous; the lobes linear-lanceolate and divaricate: petioles with 2 glands: peduncles solitary, axillary: flowers without petals.
Antillys. *Cavan. diss.* 10. t. 274. *Plum.* 70. t. 85.
- hederacea.* Leaves peltate, half 3-lobed, glabrous; the lobes ovate, obtuse: petioles with 2 glands: peduncles solitary, axillary: flowers without petals.
Antillys. *Plum. Amer.* 70. t. 84. Clematis.
- glauca.* Leaves peltate, hearted and 3-lobed; the lobes equal, oblong, obtuse: petioles with about 4 glands: petals as long as the calyx.
Cayenne. *Aubl. Gui.* 2. t. 325. *P. stipulata.*
Leaves glaucous underneath, not dotted: *stipules* acute, entire: *nectary* half as long as the petals; the rays violet tipped with white.
- holosericea.* Leaves 3 lobed, downy, with a reflected tooth each side at the base.
Vera Cruz. *Cavan. diss.* 10. t. 291. *Mart. cent.* t. 51.
Leaves downy both sides: *petioles* with 2 opposite glands.
- hirsuta.* Leaves 3-lobed, villous; the lower-ones glabrous above, the lobes oblong, very entire, the middle-one a little longer: petioles with 2 glands.
Dominica. *Plum. Amer.* t. 88, f. A. *Herm. parad.* t. 176.

- fœtida.* Leaves 3-lobed, hearted, hairy: involucre in many capillary divisions.
West Indies. *Cavan. diss.* 10. t. 289 *Herm. parad.* t. 173.
Middle lobe of the leaf much larger: stipules ciliary: petioles viscid-hairy, without glands: flowers fetid.
- ciliata.* Leaves 3-lobed, hearted, glabrous, ciliate: involucre in many capillary divisions.
Jamaica. *Curt. mag. tab.* 288.
Lobes oblong, pointed; the middle-one longer, slightly repand at the margin: petioles without glands: stipules pinnatifid, narrow.
- serrulata.* Leaves 3-lobed, very finely ferrulate; the lobes oblong, the middle one larger: petioles with 2 glands.
Carthagenæ. *Jacq. obs.* 2. p. 26 t. 46 f. 2.
Plant glabrous: glands on the petioles alternate.
- aurantia.* Leaves with 3 oblong obtuse lobes, the middle-one longer: petioles with 2 glands: crown cylindrical, denticulate.
New Cædonia. *Forst. prodr.* n. 326 *Willd.* 3. p. 620.
Stem grooved, glabrous: involucre 3 short bristles.
- cuneifolia.* Leaves 3-lobed, ferrate; the lobes ovate, pointed: petioles with 2 glands: involucre of 3 elliptic entire obtuse leaves: filaments of the crown 4 times shorter than the corol.
America. *Cavan. diss.* 10. p. 460. t. 292.
- incarnata.* Leaves 3-lobed, ferrate; the lobes oblong, acute: petioles with 2 glands: involucre of 3 lanceolate glandular-toothed leaves: filaments of the crown longer than the corol.
America. *Cavan. diss.* 10. t. 293. *Jacq. ic. rar.* 1. t. 187.
- tomentosa.* Leaves 3-lobed, ferrate, downy: petioles with 6 pedicelled glands: involucre tubular, 3-cleft: calyx very long, tubular.
Peru. *Cavan. diss.* 10. t. 275, 276.
Plant downy: stipules pointed, denticulate: nectary a single row of very short clavate filaments.
- mixta.* Leaves 3 lobed, ferrate, glabrous: petioles glandular: involucre tubular, 3-cleft: calyx very long, tubular.
2. Lateral lobes cleft: *Cavan. diss.* 10. t. 277.
New Granada. *Smith ic. ined.* 1. t. 25.
Stem grooved, glabrous: stipule deeply toothed: leaves reticulate underneath: involucre not pointed.
- D. Leaves many-cleft.
- cærulea.* Leaves palmate, 5 parted, very entire: petioles glandular: involucre 3-leaved, very entire: filaments of the crown shorter than the corol.
Brasil. *Curt. mag.* t. 28. *Cavan. diss.* 10. t. 295.

filamentosa. Leaves palmate, 5-parted, ferrate: petioles glandular: involucre 3-leaved, ferrate: filaments of the crown longer than the corol.

America. *Cavan. diff.* 10. p. 461. t. 294.

serrata. Leaves palmate, 7-parted, ferrate: petioles glandular: involucre 3-leaved, very entire.

Martinico. *Cavan. diff.* 10. t. 296. *Plum. Amer.* t. 79.

Tube of the *calyx* clavate.

pedata. Leaves in 7 pedate ferrate divisions: petioles glandular: involucre 5-leaved, ferrate.

West Indies. *Plum. Amer.* t. 81. *Petiv. gaz.* t. 114. f. 4.

heterophylla Upper-leaves in 5 pedate obovate slightly cut divisions; lower-ones in 3 linear-lanceolate divisions, or simple.

St. Domingo. *Plum. spec.* 7. ic. 139. f. 1. *Granadilla*.

Stem without tendrils: *petals* shorter than the calyx.

1297. *ERODIUM*. *Calyx* 5-leaved: *petals* 5: *nectariferous glands* 5, alternating with the filaments: *stamina* 10, 5 of them barren: *fruit* beaked, separating into 5 capsules, each tipped with a long spiral awn bearded on the inside.

A. *Leaves compound, pinnate and pinnatifid.*

crassifolium Umbels many-flowered: leaves thick, pinnatifid, with linear irregularly cut divisions.

Cyprus. *Andrews bot. repos.* t. 136. *Geranium*.

Stem procumbent, glabrous: *flowers* purple.

Stephanianum. Peduncles 2-flowered: leaves pinnatifid, with linear pointed divisions: stem villous.

Dauria. *Willd. sp. pl.* 3. p. 625.

Stipules lanceolate, pointed: *calyx* ending in long points.

tataricum. Stemless: peduncles 2 or 3-flowered: leaves pinnate; the divisions pinnatifid, with linear segments: common petiole naked, pubescent: *petals* obovate, twice as long as the calyx.

Siberia; Tartary. *Willd. sp. pl.* 3. p. 625.

Divisions of the *leaves* deeply pinnatifid, with very narrow linear entire segments, the terminal-one 3-parted; common petiole not furnished with foliaceous teeth.

supracanum Stemless: peduncles 2 or 3-flowered: leaves hoary above, pinnate; the divisions pinnatifid, with lanceolate segments; common petiole toothed between the divisions: *petals* retuse, twice as long as the calyx.

Spain. *Cavan. diff.* 4. t. 90. f. 4. *L'Herit. Geran.* t. 2.

- petraeum*. Stemless: peduncles many-flowered: leaves nearly glabrous, pinnate; the divisions pinnatifid, with lance-linear segments: common petiole toothed between the divisions: petals retuse, twice as long as the calyx.
France. *Cavan. diff.* 4. t. 96. f. 2. *Gouan. illustr.* t. 21. f. 1.
Peduncles and petioles covered with spreading hairs: leaves not hoary above: petals not spotted.
- absinthoides*. Peduncles many-flowered: leaves hoary, pinnate; the divisions pinnatifid, with lanceolate segments: common petiole toothed between the divisions: petals emarginate, larger than the calyx: stem simple, ascending.
Armenia. *Willd. sp. pl.* 3 p. 627. n. 6.
Stems covered with appressed down: peduncles 3 or 4-flowered.
- glandulosum*. Stemless: peduncles many-flowered: leaves pinnate; the divisions pinnatifid, with lanceolate segments: common petiole toothed between the divisions: petals nearly equal, twice as long as the acute calyx.
Spain. *Cavan. diff.* 5. t. 125. f. 2. *L'Herit. Geran.* t. 1.
Petals violet, acute, 2 of them broader.
- bipinnatum*. Peduncles 2-flowered: leaves glabrous, pinnate; the divisions pinnatifid, with lanceolate slightly toothed segments: awns glabrous: stem glabrous, decumbent.
Numidia. *Cavan. diff.* 5. p. 273. t. 126. f. 3.
- alpinum*. Peduncles many-flowered: leaves pinnate; the divisions pinnatifid, and cut-toothed: common petiole toothed between the divisions: petals ovate: stem divaricate.
Alps. *Cavan. diff.* 4. t. 96. f. 1. *L'Herit. Geran.* t. 3.
Root tuberous, perennial: petals ovate, obtuse, entire.
- ciconium*. Peduncles many-flowered: leaves pinnate; the divisions pinnatifid and toothed: common petiole toothed between the divisions: petals oblong, obtuse, 2 of them emarginate: stem ascending.
South of Europe. *Cavan. diff.* 4. t. 95. f. 2. *Jacq. hort.* 1. t. 18.
- *cicutarium*. Peduncles many-flowered: leaves pinnate; the divisions sessile, pinnatifid and cut: corol larger than the calyx: stem prostrate, hairy.
Wastes. *Curt. Lond. f.* 1, t. 51. *Cavan. diff.* 4. t. 95. f. 1.
- pimpinelli-folium*. Peduncles many-flowered: leaves pinnate; the divisions ovate, sessile, cut-toothed: corol less than the calyx: awns glabrous: stem decumbent, a little hairy.
Germany; France. *Cavan. diff.* 4. p. 226. t. 93. f. 1.
- romanum*. Stemless: peduncles many-flowered: leaves pinnate, with ovate pinnatifid divisions: petals larger than the calyx.
Rome. *Curt. mag.* t. 337. *Cavan. diff.* 4. t. 94. f. 2.
Petals not spotted at the base.

- * *moschatum* Peduncles many-flowered: leaves pinnate; the divisions slightly petioled, oblong, cut-toothed: petals equaling the calyx: stem procumbent.
High pastures. *Eng. bot.* t. 902. *Cavan. diss.* 4. t. 94. f. 1.
- præcox.* Stemless: peduncles 2-flowered: leaves pinnate; the divisions oblong, obtuse, unequally toothed: petals twice as large as the calyx.
Spain. *Cavan. diss.* 5. p. 272. t. 126. f. 2.
Plant clothed with white hairs: leaflets oblong.
- pulverulentum.* Peduncles many-flowered: leaves hoary, pinnatifid, with deeply toothed divisions: stem procumbent.
Spain; Africa. *Cavan. diss.* 5. p. 272. t. 125. f. 1.
- hirtum.* Peduncles many-flowered: leaves nearly doubly pinnatifid, hairy: stem branched, diffuse.
Egypt. *Vabl. symb.* 1. p. 49. *Geranium.*
Involucres rough, ovate: calyx striate, villous.
- laciniatum.* Peduncles many flowered: leaves doubly pinnatifid, glabrous: stipules and involucres scarious: stem prostrate.
Crete; Africa. *Cavan. diss.* 4. p. 228. t. 113. f. 3.
Petals blue, a little larger than the calyx.

B. *Leaves ternate and 3-parted.*

- gruinum.* Peduncles generally many-flowered: leaves ternate, pointed, cut-toothed; the middle-leaflet pinnatifid and petioled: stem bristly.
South of Europe. *Cavan. diss.* 4. p. 217. t. 88. f. 2.
2. Peduncles 2-flowered: leaves pinnatifid, obtuse, toothed.
Cavan. diss. 4. t. 90. f. 2. *Geranium Botrys.*
- chium.* Peduncles many-flowered: leaves heart-shaped, cut; the upper-ones 3 parted, with deeply 3-parted segments.
Chio. *Cavan. diss.* 4. t. 92. f. 1. *Mart. cent.* t. 4.
Lower leaves 3-lobed, cut toothed; upper-ones 3-parted, with pinnatifid cut-toothed divisions: leaflets of the calyx lanceolate, pointed, clothed with simple hairs.
- asplenoides.* Stemless: peduncles many-flowered: leaves ternate, obtuse, toothed, pubescent; the middle-leaflet jagged and sessile.
Africa; Siberia. *Desfont. atl.* 2. p. 109. t. 168.
Calyx not mucronate, shorter than the obtuse petal.
- hymenoides.* Peduncles many-flowered: leaves obtuse, cut-toothed; the lower-ones ternate, upper-ones 3-lobed. stem erect.
Mount Atlas. *Cavan. diss.* 4. t. 97. f. 3. *L'Herit. Geran.* t. 4.
Leaves hearted, hairy: petals a little unequal.
- mauricicum.* Peduncles 2, 3, and 4-flowered: leaves 3-parted, toothed; the middle-lobe elongated.

Murcia. *Cavan. diss.* 5. p. 272. t. 126. f. 1.

Lower-leaves 3-parted, upper-ones 3-lobed.

C. *Leaves lobed and undivided.*

guttatum. Peduncles about 3-flowered: leaves hearted, oblong, with 2 or 3 lobes, toothed, hairy: stem prostrate.

Africa. *Desfont. atl.* 2. p. 113. t. 169. *Shaw Afr.* t. 260.

Leaves hoary, small: petals obtuse, spotted at the base.

glaucophyllum. Peduncles many-flowered: leaves oblong, slightly lobed, crenate, somewhat fleshy, glabrous: awns feathered at top.

Egypt. *Cavan. diss.* 4. t. 92. f. 2. *Dill. elth.* t. 124. f. 150.

Stem ascending: leaves glaucous, obsoletely lobed: awns of the seeds hairy at bottom, elegantly feathered at top.

incarnatum. Peduncles 2—5-flowered: leaves rough, heart-shaped, 3-lobed or 3-parted, toothed: stem somewhat shrubby.

The Cape. *Curt. mag.* t. 261. *Cavan. diss.* 4. t. 91. f. 2.

Petals large, oblong, obtuse, flesh-colour, yellowish at the base, and surrounded with a sanguineous circle.

arduinum. Stemless: peduncles many-flowered: leaves hearted, 5-lobed.

The Cape. *Leaves* crenate, obtuse, rough underneath.

ribifolium. Peduncles many-flowered: leaves heart-shaped, 3-lobed, obtuse, toothed: petals as long as the calyx.

The Cape. *Jacq. ic. rar.* 3. tab. 509.

Leaves 3 or 5-lobed, obtuse, bristly: corol purple.

arborescens. Peduncles many-flowered: leaves heart-shaped, crenate, slightly lobed: stem shrubby.

Africa. *Desfont. atl.* 2 p. 110. *Willd.* 3. p. 638.

Leaves glabrous, thickish: stipules scarious, ovate, pubescent: calyx striate, pubescent.

heliotropioides. Peduncles many flowered: leaves roundish-ovate, crenate, villous: awns feathered at top.

— *Cavan. diss.* 4. p. 220 t. 113. f. 2.

Leaves clothed with white wool: peduncles 4-flowered.

malacoides. Peduncles many-flowered: leaves heart-shaped, slightly lobed, obtuse, toothed, glabrous: stem and petioles hairy.

South of Europe. *Cavan. diss.* 4. p. 220. t. 91. f. 1.

Peduncles 5—7 flowered: corol as large as the calyx.

maritimum. Peduncles 2 or 3-flowered: leaves heart-shaped, cut, crenate, rough: stems depressed.

Sea shores. *Eng. bot.* t. 646. *Cavan. diss.* 4. t. 88. f. 1.

malopoides. Peduncles 2 or 3-flowered: leaves heart-shaped, roundish, obtuse, crenate, hoary.

Africa; Sicily. *Cavan. diss.* 4. p. 219. t. 90. f. 1.

Stems decumbent: flowers small, pale rosy.

chamædryoides. Nearly stemless: peduncles 1-flowered: leaves heart-shaped, obtuse, crenate.

Minorca. *Curt. mag.* t. 18. *Cavan. diss.* 4. t. 76. f. 2.

Leaves roundish: petals twice as large as the calyx.

ORDER III. HEPTANDRIA: 7 perfect stamina.

1298. PELARGONIUM. Calyx 5-parted, the upper-division ending in a capillary nectariferous tube running down the peduncle: petals 5, irregular: filaments 10, unequal, 3 and sometimes 5 of them barren: fruit beaked, separating into 5 capsules, each tipped with a spiral awn bearded on the inside.

A. Stemless: root rapaceous: umbel compound.

longifolium. Stemless: umbel compound: leaves lanceolate, very entire, acute, glabrous; the older-ones pinnatifid, linear: flowers with 4 perfect stamina: petals obtuse, lanceolate; the upper-ones obovate.

The Cape. *Cavan. diss.* 4. t. 102. f. 1. *Burm. Geran.* 67. t. 2.

Involucres oblong, acute, ciliate: corol flesh-colour: divisions of the calyx ciliate, awned, spreading.

longiflorum. Stemless: umbel compound: leaves lanceolate, very entire, acute, glabrous: flowers with 4 perfect stamina: petals linear-lanceolate.

The Cape. *Jacq. ic. rar.* 3. t. 521. 2) t. 520.

Umbel 4-flowered, surrounded with lanceolate involucres: segments of the calyx lanceolate, reflected.

dipetalum. Stemless: umbel simple: leaves ovate, very entire, acute, glabrous: flowers with 5 perfect stamina and 2 petals.

The Cape. *L'Herit. Geran. tab.* 43.

Scape naked, ending in a 3-flowered umbel: peduncles deflected: petals 2, obovate, retuse.

oxaloides. Stemless: umbel compound: leaves oblong, arrow-shaped, very entire, glabrous.

The Cape. *Cavan. diss.* 4. t. 97. f. 1. *Burm. Geran.* 71. t. 2.

Leaves arrow-shaped, fleshy.

Ficaria. Stemless: umbel compound: leaves roundish, acute, very entire, pubescent.

The Cape. *Houtt. syst.* t. 61. f. 1. *Geranium chelidonium*,

Petals lanceolate, obtuse, with deeper spots at the base.

- ciliatum.* Stemless: umbel compound: leaves ovate, rather acute, very entire, ciliate round the edge: flowers with 5 perfect stamina.
The Cape. *Cavan. diss. 4. t. 118. f. 2. L'Herit. Geran. t. 7.*
- auriculatum.* Stemless: umbel compound: leaves oblong-lanceolate, very entire, acute, hairy, ciliate round the edge, appendaged at the base: flowers with 5 perfect stamina.
The Cape. *Jacq. ic. rar. 3. tab. 519.*
Leaves glabrous underneath: *petals* linear, obtuse.
- auritum.* Stemless: umbel compound: leaves oblong, mostly very entire, obtuse, simple and ternate.
The Cape. *Comm. hort. 2. p. 121. tab. 61.*
- birtum.* Stemless: umbel compound: leaves ovate, very entire, obsoletely 3-lobed, ciliate: flowers with 5 perfect stamina.
The Cape. *Cavan. diss. 5. p. 273. and diss. 6. p. 352. t. 199.*
Leaves glabrous: *petioles, scapes and peduncles* clothed with white hairs: 2 upper *petals* emarginate.
- punctatum.* Stemless: umbel compound: leaves ovate, toothed, glabrous: flowers with 2 perfect stamina: 2 upper-petals as long again as the 3 lower-ones.
The Cape. *Andrews bot. repos. tab. 60.*
Umbel of above 20 flowers: 2 upper *petals* emarginate.
- bifolium.* Stemless: umbel simple: leaves heart-shaped, cut-toothed.
The Cape. *Cavan. diss. 4. t. 115. f. 3. Buum. afr. t. 35. f. 1.*
Umbel of few flowers: *leaves* radical, a single pair.
- hirsutum.* Stemless: umbel compound: leaves obovate, lanceolate, very entire or pinnatifid, hairy, ciliate.
The Cape. *Cavan. diss. 4. t. 101. f. 2. Burm. Geran. t. 2.*
- atrum.* Stemless: umbel compound: leaves glabrous, oblong, toothed or pinnatifid, very entire: flowers with 5 perfect stamina.
The Cape. *L'Herit. Geran. tab. 44.*
Leaves not ciliate: *petals* linear-lanceolate, black.
- viridum.* Stemless: umbel simple: leaves 3-parted, with linear-wedge-form 3-toothed segments.
The Cape. *Cavan. diss. 4. t. 115. f. 1. Burm. afr. t. 35. f. 2.*
Leaves 3 together, on short *petioles*: *flowers* sanguineous.
- heterophyllum.* Stemless: umbel compound: leaves ciliate, simple, 3-lobed or ternate, with the middle leaflet 3-lobed.
The Cape. *Jacq. ic. rar. 3. tab. 516.*
Leaves glabrous: *scapes, petioles, peduncles and calyxes* hairy: *corol* white, the 2 upper-ones with a red spot at the base.

triphyllum. Stemless: umbel somewhat compound: leaves ternate, obtuse, crenate, glabrous.

The Cape. *Jacq. ic. rar. 3. tab. 515.*

Scapes, petioles, peduncles and reflected calyx pubescent: corol flesh-colour, the 2 upper petals with red dots at the base.

nervifolium. Stemless: umbel compound: leaves ternate, glabrous; the leaflets obtuse, very entire, nerved, slightly lobed, glaucous underneath.

The Cape. *Jacq. ic. rar. 3. tab. 517.*

Scapes, petioles, peduncles and spreading calyx hairy: petals oblong, obtuse, white with red lines.

pinnatum. Stemless: umbel somewhat compound: leaves pinnate, hairy both sides, with roundish-ovate undivided leaflets.

The Cape. *Curt. mag. t. 579. Cavan. diss. 4. t. 104. f. 2.*

2. Leaves downy underneath. *Cavan. diss. 4. t. 115. f. 2.*

Plant hairy: petals whitish, 2 upper-ones with red marks.

barbatum. Stemless: umbel compound: leaves pinnate; the leaflets linear, 3-cleft, pointed, bearded at top.

The Cape. *Cavan. diss. 4. t. 120. f. 3. Jacq. ic. rar. 3. t. 513.*

Petals flesh-colour, the 2 upper-ones with 2 red nerves.

melananthon. Stemless: umbel compound: leaves pinnate, hairy, with oblong obtuse pinnatifid leaflets.

The Cape. *Jacq. ic. rar. 3. tab. 515.*

carneum. Stemless: umbel somewhat compound: leaves doubly pinnate, glabrous, with lanceolate 3-cleft obtuse leaflets.

The Cape. *Cavan. diss. 4. t. 120. f. 1. Jacq. ic. rar. 3. t. 512.*

Petals flesh-colour, with 2 red branched nerves.

rapaceum. Stemless: umbel compound: leaves decompositely lacinate, villous.

The Cape. *Jacq. ic. rar. 3. t. 510. Comm. hort. 2. t. 63.*

Calyx silky, ciliate: 2 upper petals spotted at the base: leaves doubly pinnate, with trifid or pinnatifid segments.

B. Nearly stemless: root tuberous.

lobatum. Stemless: umbel compound: leaves downy underneath, simple, heart-shaped, or in threes or fives with lobed sinuate toothed leaflets.

The Cape. *Cavan. diss. 4. t. 114. f. 2. Comm. hort. t. 62.*

Petals blackish, yellow at the base: perfect stamina 6.

pulchellum. Nearly stemless: scape divided: leaves hairy, oblong, in pinnatifid lobes: petioles winged.

The Cape. *Curt. bot. mag. tab. 524.*

Plant hairy: petals white with red spots: antheræ 5.

- trifide.* Nearly stemless: umbel simple: leaves hairy, pinnate; the leaflets doubly pinnatifid, with oblong acute divisions.
The Cape. *Cavan. diss.* 4. t. 107. f. 1. *Breyn. cent.* t. 58.
Petals dull yellowish-green with a rufous spot.
- appendiculatum.* Nearly stemless: umbel simple: leaves villous, doubly pinnate, with linear leaflets: stipules dilated into an oval at top and growing to the base of the petioles.
The Cape. *Cavan. diss.* 4. p. 262. t. 121. f. 2.
Petioles appendaged in the middle each side by a broad ovate glabrous entire lobe: *umbel* 10-rayed: *flowers* violet.
- flavum.* Nearly stemless: umbels simple: leaves hairy, decom-
poundly divided, with linear divisions.
The Cape. *Cavan. diss.* 4. t. 120. f. 2. 2) *Jacq. ic. rar.* t. 522.
Plant hairy: *leaves* repeatedly divided.
- C. *Herbaceous or somewhat shrubby.*
- Oenotheræ.* Peduncles few-flowered: leaves oblong-lanceolate, obtuse,
toothed, hoary, downy: stem ascending, herbaceous.
The Cape. *Jacq. ic. rar.* 3. t. 525. *Andrews' repos.* t. 115?
Herb clothed with soft hoary down: *flowers* violet.
- chamædrifolium.* Peduncles 1 or 2-flowered: leaves elliptic, obtuse, hoary,
pubescent, toothed: petals as long as the calyx: stem
procumbent.
The Cape. *Jacq. ic. rar.* 3. t. 523. Fertile stamina 7.
Stems with swollen joints: *flowers* white, small,
- ovale.* Peduncles many-flowered: leaves ovate, acute, toothed,
hoary: stem weak, twisted, prostrate.
The Cape. *L'Herit. Geran. tab.* 23.
- trichostomum.* Peduncles 2 or 3-flowered: leaves elliptic-roundish, obtuse,
crenate, silky: upper petals roundish: stem somewhat
shrubby, ascending.
The Cape. *Jacq. ic.* 3. t. 524. 2) *Cav. diss.* 4. t. 103. f. 2.
Leaves green, satiny: *peduncles* 1—3-flowered: *petals* flesh-
colour, whitish at the base; the 3-lower-ones lanceolate.
- blattarium.* Peduncles many-flowered: leaves roundish, obtuse,
silky: upper petals roundish: stem somewhat shrub-
by, erect.
The Cape. *Jacq. hort. schænb.* 2. p. 3. t. 131.
Leaves cinereous, plaited: *corol* violet: *antheræ* red.
- eriosomon.* Peduncles few-flowered: leaves elliptic-roundish, obtuse,
crenate, silky: upper petals obovate, acutely emargi-
nate: stem somewhat shrubby erect.
The Cape. *Jacq. hort.* 2. t. 132. *Cavan. diss.* 4. t. 103. f. 3?
Leaves green, silky: *corol* large, white: fertile *stamina* in this
and the last only 5.

- elegans.* Peduncles many-flowered: leaves elliptic-roundish, sharply ferrate, obtuse, rigid, glabrous: all the petals obovate: stem somewhat shrubby, erect.
The Cape. *Andrews bot. repof. tab. 28.*
Umbel 4 or 6-flowered: petals reddish-white.
- stipulaceum.* Peduncles few-flowered: leaves oblong, obtuse, somewhat hearted, cut-toothed, villous: stem very short, covered with the rudiments of stipules.
The Cape. *Cavan. diss. 4. p. 254. t. 122. f. 3.*
- articulatum* Peduncles few-flowered: leaves kidney-form, 5-lobed, villous; the lobes about 3-lobed: stem covered with the rudiments of stipules.
The Cape. *Cavan. diss. 4. p. 252. tab. 122. f. 1.*
- tabulare.* Peduncles 2 or 3-flowered: leaves kidney-form, 5-lobed, obtuse, toothed at top, nearly glabrous: stem ascending, bristly with hairs.
The Cape. *Cavan. diss. 4. t. 101. f. 3. L'Herit. Geran. t. 9.*
Leaves roughish: corols whitish.
- alchimilloides.* Peduncles few-flowered: leaves heart-shaped, in 5 palmate lobes, toothed, villous: stem diffuse, villous: stigmata sessile.
The Cape. *Cavan. diss. 4. t. 98. f. 1. Herm. lugdb. t. 283.*
Peduncles 3 or 4 flowered: lobes of the leaves 3-cleft.
- odoratissimum.* Peduncles about 5-flowered: leaves roundish-heart-shaped, very soft.
The Cape. *Cavan. diss. 4. t. 103. f. 1. Dill. elth. t. 131. f. 138.*
2. Upper-leaves often 3-lobed. *Cavan. diss. 4. t. 104. f. 1.*
- grossularioides.* Peduncles about 2-flowered, filiform: leaves hearted, roundish, cut, toothed: stem quite glabrous.
The Cape. *Cavan. diss. 4. t. 119. f. 2. Herm. lugdb. t. 289.*
Plant glabrous: stems prostrate, square: leaves marked with lines: flowers minute: antheræ 4.
- anceps.* Umbels many-flowered, forming heads: leaves heart-roundish, obsoletely lobed: stems with 2 or 3 edges.
The Cape. *Jacq. collect. 4. p. 184. t. 22. f. 3.*
Plant glabrous: stems decumbent: lobes of the leaves obtusely toothed: flowers small, reddish.
- althæoides.* Peduncles many-flowered: leaves heart-ovate, villous, 3-lobed, toothed; the upper-ones sinuate: petals equaling the calyx.
The Cape. *Cavan. diss. 4. t. 123. f. 2. L'Herit. Geran. t. 10.*
Plant downy, depressed: peduncles very long.
- columbinum.* Peduncles many-flowered: leaves ternate, 3-parted and divided into 3 segments: stem decumbent, hairy.
The Cape. *Jacq. hort. schænb. 2. p. 4. t. 133.*

- coronopifolium*. Peduncles few-flowered: leaves linear-lanceolate, cut-toothed at top, hoary underneath: stem somewhat shrubby, ascending.
The Cape. *Jacq. ic. rar.* 3. t. 526.
Peduncles 2 or 3-flowered: corol pale violet; the 2 upper-petals with an obtuse tooth each side above the claw.
- capillare*. Peduncles 1 or 2-flowered: leaves lanceolate, deeply pinnatifid, pubescent: stem somewhat shrubby.
The Cape. *Cavan. diss.* 4 p 258 t. 97. f. 1.
Leaves with linear entire segments: peduncles long.
- tricolor*. Peduncles 2 or 3-flowered: leaves lanceolate, villous-hoary, deeply toothed and nearly 3-cleft: stem somewhat shrubby, erect.
The Cape. *Curt. mag.* t. 240. *Jacq. ic. rar.* 3. t. 527.
Plant villous: petals all obovate; the 2 upper-ones red with a dark spot at the base, 3 lower-ones white.
- senecioides*. Peduncles 2 or 3-flowered: involucre and divisions of the calyx obtuse: leaves in doubly pinnatifid segments: stem herbaceous.
The Cape. *L'Herit. Geran. tab.* 11. Flowers white.
- myrrhifolium*. Peduncles few-flowered: leaves ternate, pinnatifid, serrate; the upper-ones doubly pinnatifid: flowers with 5 perfect stamina and 4 petals: stem with stiff bristles.
2. Peduncles 2-flowered: petals 4. *Jacq. ic. rar.* 3. t. 530.
The Cape. *Cavan. diss.* 4. t. 118. f. 1. *Jacq. ic. rar.* 3. t. 531.
Herb pubescent: leaves with a broad brown spot on the disk: 2 segments of the calyx 3-nerved, 2 1-nerved, 1 2-nerved: petals 4, pale flesh-colour: antheræ 5.
- lacerum*. Peduncles few-flowered: leaves doubly pinnatifid; the segments lanceolate, obtuse, toothed at top: stem rough-haired.
The Cape. *Jacq. ic. rar.* 3. t. 532, 533, 535.
Corol sometimes 4-petalled: antheræ 5 or 7.
- multicaule*. Peduncles many-flowered, nearly forming heads: leaves pinnatifid and doubly pinnatifid, toothed, glabrous: petals 4: stem decumbent, glabrous.
The Cape. *Jacq. ic. rar.* 3. tab. 534.
Older-leaves doubly pinnatifid: antheræ 7.
- coriandrifolium*. Peduncles 2 or 3-flowered: leaves doubly pinnate, with pinnatifid linear leaflets: flowers with 5 perfect stamina: petals generally 4: stem nearly smooth.
The Cape. *Cavan. diss.* 4. t. 116. f. 1. *Jacq. ic. rar.* 3. t. 528.
- caucalisifolium*. Peduncles 1-flowered: leaves doubly pinnate, with pinnatifid linear leaflets: flowers with 7 fertile stamina: petals 4: stem rough-haired.
The Cape. *Jacq. ic. rar.* 3. tab. 529.

minimum. Peduncles mostly 4-flowered: leaves on long petioles, doubly pinnate, with oblong leaflets: stem erect, glabrous.

The Cape. *Cavan. diss.* 4. p. 260. t. 121. f. 3.

Plant glabrous: leaves small, with undivided leaflets.

D. Shrubby: leaves undivided, not angular.

glaucum. Peduncles 2-flowered: leaves lanceolate, very entire, acute, glaucous.

The Cape. *Curt. mag.* t. 56. *Cavan. diss.* 4. t. 102. f. 2.

Shrub glabrous, erect: umbel of few flowers.

diversifolium. Peduncles 1 or 2-flowered, panicled: leaves simple or ternate, lanceolate, very entire, glaucous; the lower-ones toothed.

The Cape. *Wendl. obs.* 51. *Willd.* 3. p. 664.

Lower-leaves oblong, toothed; upper-ones ternate, the leaflets lanceolate, entire and slightly bearded at top; uppermost simple, lanceolate, very entire: peduncles forming a panicle.

betulinum. Umbels few-flowered: leaves ovate, unequally serrate, levigated.

The Cape. *Curt. mag.* t. 148. *Burm. afr.* 92. t. 1, 2.

acetosum. Umbels few-flowered: leaves obovate, crenate, glabrous, fleshy: petals linear.

The Cape. *Curt. mag.* t. 103. *Cavan. diss.* 4. t. 104. f. 3.

Leaves very entire and wedge-form at the base, downy.

E. Shrubby: leaves angular, lobed, or palmate.

scandens. Peduncles many-flowered: leaves roundish, obsoletely lobed, crenate, marked with a zone: petals linear, as wide as the segments of the calyx.

The Cape. *Willd.* 3. p. 666. *Ehrh. Beytr.* 7. p. 161.

Shrub not climbing: branches flexuous, woven together.

stenopetalum. Peduncles many-flowered: leaves roundish, obsoletely lobed, crenate, marked with a zone: petals linear, narrower than the segments of the calyx.

The Cape. *Willd.* 3. p. 666. *Ehrh. Beytr.* 7. p. 161.

hybridum. Peduncles many-flowered: leaves roundish, obsoletely lobed, crenate, not zoned: petals linear-wedge-form, broader than the segments of the calyx.

2. Leaves pubescent. *Ehrh. beytr.* 7. p. 161.

The Cape. *Cavan. diss.* 4. t. 105. f. 2. *Dill. elth.* t. 125. f. 152.

Base of the leaves in this and the 2 last a little truncate.

zonale. Umbels many-flowered: leaves hearted, orbicular, obsoletely lobed, obtusely toothed, marked with a zone.

The Cape. *Cavan. diss.* 4. t. 98. f. 2. *Comm. præl.* 51. t. 1.

Plant pubescent: leaves crenate, with obsolete very obtuse lobes, marked with a blackish zone: flowers red.

marginatum. Umbels many-flowered: leaves hearted, nearly orbicular, obsoletely lobed, acutely toothed, not zoned, with a whitish margin,

The Cape. *Cavan. diss.* 4. p. 230.

Plant smaller than the last, less pubescent: leaves acutely toothed, with acute lobes and a white or yellowish margin.

inquinans. Umbels many-flowered: leaves orbicular, kidney-form, crenate, nearly undivided, viscid-downy.

The Cape. *Cavan. diss.* 4. t. 106. f. 2. *Dill. elth.* t. 125. f. 151.

The leaves when touched stain the fingers with a ferruginous colour.

beterogamum. Umbels many-flowered: leaves somewhat orbicular, cut-lobed, toothed: stem erect, shrubby.

The Cape. *L'Herit. Geran.* t. 18. Fertile filaments 6.

Monstrum. Leaves orbicular, kidney-form, obsoletely lobed, plaited, curled.

— *Aiton Kew.* 2. p. 425. *Willd.* 3. p. 668.

crassicaule. Umbels many-flowered: leaves kidney-form, a little pointed, plaited, crenate: stem fleshy, branched, smooth.

Africa. *Curt. mag.* t. 477. *L'Herit. Geran.* t. 26.

Petals nearly equal, refuse: fertile stamina 5.

peltatum. Umbels few-flowered: leaves 5-lobed, very entire, peltate, fleshy, shining: branches angular.

The Cape. *Curt. mag.* t. 20. *Cavan. diss.* 4. t. 100. f. 1.

Leaves slightly zoned, with pointed lobes.

lateripes. Umbels many-flowered: leaves hearted, 5-lobed, slightly toothed, fleshy: branches round.

The Cape. *L'Herit. Geran.* t. 24. *Aiton Kew.* 2. p. 428.

tetragonum. Peduncles 2-flowered: branches quadrangular, fleshy: petals 4.

The Cape. *Curt. mag.* t. 136. *Cavan. diss.* 4. t. 99. f. 2.

Branches unequally and obtusely quadrangular: leaves small, 1 at each joint of the branches, hearted, lobed and toothed, hairy, often coloured: flowers very large.

cordatum. Umbels many-flowered: leaves heart-shaped, acute, toothed: lower-petals linear, acute.

The Cape. *Curt. mag.* t. 165. *Cavan. diss.* 4. t. 117. f. 3.

Leaves soft, flat, or curled: 2 upper petals large.

cucullatum. Umbels generally many-flowered: leaves kidney-form, hooded, toothed.

The Cape. *Cavan. diss.* 4. t. 106. f. 1. *Herm. lugdb.* t. 175.
 Plant pubescent: leaves undulate, crenate.

angulosum. Umbels many-flowered: leaves rounded, hooded, angular, toothed.

The Cape. *Cavan. diss.* 2. t. 112. f. 2. *Mart. cent.* t. 28.

acerifolium. Umbels about 5-flowered: leaves in 5 palmate lobes, serrate, wedge-shaped and undivided below.

The Cape. *L'Herit. Geran.* t. 21. *Cavan. ic.* 1. t. 8.

Leaves pubescent both sides, the upper-ones 3-lobed.

papilionaceum. Umbels many-flowered: leaves roundish heart-shaped, angular: 2 upper-petals obovate and twice as long as the calyx, 3 lower-ones linear and half as long as the calyx.

The Cape. *Cavan. diss.* 4. t. 112. f. 1. *Mart. cent.* t. 15.

coriæfolium. Umbels many-flowered: leaves hearted, cut-lobed, waved, obtusely toothed: stipules subulate.

Africa. *L'Herit. Geran.* t. 25. *Aiton Kew.* 2. t. 428.

All the petals obovate, the 2 upper-ones broader.

fuscatum. Umbels 4-flowered: leaves heart-shaped, 5-lobed; the upper-ones somewhat palmate, toothed, zoned.

The Cape. *Jacq. ic. rar.* 3. t. 540.

Older-leaves with 5 toothed obtusish lobes; younger-ones with 3 deep lobes, the lateral-lobes divided.

saniculæfolium. Umbels about 5-flowered: leaves roundish-heart-shaped, 5-lobed, toothed, flat, glaucous, zoned.

The Cape. *Jacq. ic. rar.* 3. t. 539. *Cavan. diss.* 4. t. 100. f. 2.

Petioles very long, horizontal, 3 or 4 times as long as the leaves:

Stipules obtuse: 3 lower petals linear-lanceolate.

patulum. Peduncles 2-flowered: leaves heart-kidney-form, cut-lobed, glaucous, toothed at top; the upper-ones sessile.

The Cape. *Jacq. ic. rar.* 3. t. 541.

Leaves not zoned: petioles very long: stipules ovate-lanceolate: fertile stamens 6.

reniforme. Umbels 3 or 4-flowered: leaves kidney-form, slightly lobed, toothed: branches thickened upwards.

The Cape. *Curt. mag. tab.* 493.

Plant villous: petals purple, nearly equal.

grandiflorum. Peduncles 3-flowered: leaves somewhat pelate, in 5 palmate lobes; the lobes pointed and cut towards the top: petals thrice as long as the calyx.

The Cape. *Andrews bot. repos. tab.* 12.

Leaves opposite, pale green, deeply cut: stipules rounded.

praemorsum. Peduncles 1 or 2-flowered: leaves in 5 palmate lobes; the lobes wedge-shaped, very obtuse, truncate, entire at the margin, 3-toothed at the tip: petals as long as the calyx.

The Cape. *Andrews epist. t. 150. Curt. mag. t. 547.*

Leaves alternate, dark green; stipules ovate, acute.

variegatum Peduncles 1 or 2-flowered: leaves glaucous, 5-lobed; the lobes 3-cleft and toothed.

The Cape. *Cavan. diss. t. 118. f. 3.* Stipules broad, hearted.

Cotyledonis. Umbels compound; leaves heart-shaped, peltate, wrinkled, pubescent, downy underneath: stem thick, fleshy, naked.

The Cape. *L'Herit. Geran. tab. 27.*

Common peduncle 3-cleft, the pedicels bearing umbels.

echinatum. Umbels many-flowered: leaves ovate-hearted, slightly lobed, crenate; stem thick, fleshy, clothed with the permanent spinous stipules.

The Cape. *Curt. mag. t. 309. Jacq. hort. schænb. 2. t. 138.*

Leaves 3 or 5-lobed, obtuse, pubescent, beneath silky-downy: umbels 5--8-flowered: spines on the stem recurved.

australe. Umbels many-flowered, in heads: leaves heart-shaped, slightly lobed, villous underneath.

New Holland. *Willd. sp. pl. 3. p. 675. n. 81.*

Leaves obtuse, crenate, glabrous above: stipules lanceolate, pubescent: umbel 12--15-flowered.

vitifolium. Flowers in heads: leaves heart-shaped, 3-lobed, roughish: stems erect.

The Cape. *Cavan. diss. 4. t. 111. f. 1. Dill. elib. t. 126. f. 153.*

capitatum. Flowers in heads: leaves heart-shaped, lobed, waved, very soft: stems diffuse.

The Cape. *Cavan. diss. 4. t. 105. f. 1. Herm. lugdb. t. 278.*

glutinosum. Peduncles few-flowered: leaves hearted, viscid, oblong, with 5 distant lobes.

The Cape. *Curt. mag. t. 143. Cavan. diss. 4. t. 108. f. 1.*

Stem pubescent: leaves irregularly crenate.

bi-pidum. Umbels many-flowered, paniced: leaves palmate, denticulate, downy, bristly.

The Cape. *Cavan. diss. 4. t. 110. f. 1.*

Leaves alternate: involucre and involucrels 5-leaved.

tomentosum. Umbels many-flowered, somewhat paniced: leaves heart-shaped, 5-lobed, ferrate, downy.

The Cape. *Curt. mag. t. 518. Jacq. ic. rar. 3. t. 537.*

Branches, peduncles and leaves clothed with white hairs: filaments red: antheræ orange: petals white, with red lines.

ribisfolium. Umbels many-flowered: leaves heart-halbert-shaped, about 5-lobed, rough.

The Cape. *Jacq. ic. rar. 3. tab. 538.*

Petals and filaments white: antheræ orange.

quercifolium. Umbels mostly many-flowered: leaves hearted, pinnatifid, crenate, with the excavations rounded: filaments ascending at top.

2. Leaves doubly pinnatifid. *L'Herit. Geran. t. 15.*

The Cape. *L'Herit. Geran. t. 14. Cavan. diss. 4. t. 119. f. 1.*

graveolens. Umbels many-flowered, nearly forming heads: leaves palmate, 7-lobed, with oblong obtuse divisions, revolute at the margin.

The Cape. *L'Herit. Geran. t. 17. Cavan. diss. 4. t. 114. f. 1.*

asperum. Umbels about 5-flowered, in heads: leaves palmate, 7-lobed, with oblong obtuse divisions, and very rough curled teeth at the edge.

The Cape. *Rothabh. p. 15. t. 10. Geranium Radula.*

Involucres large, ovate, acute.

balsameum. Umbels few-flowered: leaves palmate, 5-lobed, wedge-shaped at the base, with lanceolate remotely toothed divisions.

The Cape. *Jacq. ic. rar. 3. tab. 543.*

Leaves rigid, hairy: peduncles 3 or 4-flowered.

Radula. Umbels few-flowered: leaves palmate and doubly pinnatifid, rough, revolute at the edge, with linear or lanceolate segments.

The Cape. *Curt. mag. t. 95. Cavan. diss. 4. t. 191. f. 2.*

Leaves rough: peduncles 4 or 5-flowered: stipules red.

F. Shrubby: leaves 3-cleft and ternate.

bicolor. Umbels many-flowered: leaves hearted, trifid, undulate, hairy; the divisions 3-lobed, toothed, obtuse.

— *Curt. mag. t. 201. Cavan. diss. 4. t. 111. f. 1.*

Petals nearly equal, dark brown edged with white.

tricuspidatum. Peduncles 2-flowered: leaves tricuspidate, the middle-lobe more produced and slightly serrate, with the rib underneath muricate.

The Cape. *L'Herit. Geran. tab. 30.*

Leaves with the lateral-lobes very entire.

scabrum. Umbels few-flowered: leaves wedge-shaped, half 3-cleft, rough; the lobes lanceolate, and all loosely serrate.

The Cape. *Cavan. diss. 4. t. 108. f. 1. Jacq. ic. rar. t. 542.*

spinosum. Umbels compound, few-flowered: leaves wedge-form, 3-cleft, toothed: petioles and permanent stipules spinous.

The Cape. *Paterson Journ. tab. 13.*

- rigidum.* Umbels many-flowered: leaves roundish, slightly 3-lobed, obtuse, very rough, flat, with unequal curled teeth round the margin.
The Cape. *Donn. ind. hort. cantab. p. 79.*
Branches flexuous, rough: leaves alternate, roundish, truncate at the base: stipules roundish, acute.
- crispum.* Peduncles about 2-flowered: leaves in 2 rows, roundish, hearted, 3-cleft, undulate and plaited, rough, toothed.
The Cape. *Cavan. diff. 4. t. 109. f. 2. L'Herit. Geran. t. 32, 33.*
Leaves minute, 5-lobed: flowers violet.
- hermannifolium.* Peduncles 2-flowered: leaves wedge-form, in 2 rows, rough, plaited, cut-toothed at top.
The Cape. *Jacq. ic. rar. 3. tab. 545.*
Leaves truncate, plaited: flowers reddish.
- adulterinum.* Peduncles about 2-flowered: leaves heart-shaped, 3-lobed, undulate, soft, villous.
The Cape. *L'Herit. Geran. tab. 34.*
Leaves obtuse, plaited, pubescent both sides.
- semitrilobum.* Peduncles 2 or 3-flowered: leaves roundish, 3-cleft, flat, hairy; the lobes divaricate and ferrate at top.
The Cape. *Jacq. hort. schænb. 2. tab. 130.*
Leaves deeply divided, the lobes spreading rectangularly.
- tripartitum.* Peduncles few-flowered: lower-leaves 3-lobed, upper-ones ternate; the lobes and leaflets wedge-form and deeply toothed at top.
The Cape. *Jacq. hort. schænb. 2. t. 134.*
Shrub with thin flexuous branches: leaves villous both sides, glaucous underneath: stipules ovate, acute.
- fulgidum.* Umbels many-flowered, in pairs: leaves ternate; leaflets sessile, cut-toothed, the middle-one elongated and pinnatifid.
The Cape. *Cavan. diff. 4. t. 116. f. 2. Dill. elth. t. 130. f. 137.*
- gibbosum.* Umbels many-flowered: leaves ternate; leaflets obtuse, cut-toothed, the middle-one wedge-shaped, petioled and 3-cleft: stem with tumid knots.
The Cape. *Cavan. diff. 4. t. 109. f. 1. Herm. lugdb. t. 285.*
- exstipulatum.* Umbels few-flowered: leaves hearted, 3-parted, toothed, hoary: stipules hardly any.
The Cape. *Cavan. diff. 4. t. 123. f. 1. L'Herit. Geran. t. 35.*
Lobes of the leaves wedge-form, unequally toothed at top.
- ternatum.* Peduncles generally 1-flowered: leaves ternate, hooded, rough: leaflets sessile, wedge-form, deeply hearted and toothed.
The Cape. *Curt. mag. t. 413. Cavan. diff. 4. t. 107. f. 2.*

laevigatum. Peduncles about 2-flowered: leaves ternate, glaucous, glabrous; leaflets 3 cleft and wedge-shaped, with linear lanceolate divisions.

The Cape. *Cavan. diff. 4. tab. 121. f. 1.*

fragile. Umbels many-flowered: leaves ternate, fleshy, deeply toothed; leaflets sessile, wedge-form, the middle-one 3-parted and elongated.

The Cape. *Andrews bot. repos. tab. 37.*

Stem thin, fragile: leaves alternate: stipules membranous.

incisum. Umbels many flowered: leaves ternate; leaflets sessile, 3-parted, and divided into many irregular segments.

The Cape. *Andrews bot. repos. tab. 67.*

Petals linear, white, the 3 upper-ones with red lines.

G. Shrubby: leaves pinnatifid, and pinnate.

carnosum. Umbels many-flowered: leaves sinuate-pinnatifid; the segments oblong, obtuse, cut-toothed at top: petals linear: stem thick, fleshy.

The Cape. *Cavan. diff. 4. t. 99. f. 1.*

ferulaceum. Umbels many-flowered: leaves pinnate, leaflets cut-toothed and undulate: petals as long as the calyx: stem thick, fleshy.

The Cape. *Cavan. diff. 4. t. 110. f. 2. Burm. afr. t. 36. f. 1.*

alternans. Umbels few-flowered: leaves pinnate; leaflets petioled, nearly opposite, wedge-form, cut-toothed at top.

The Cape. *Wendl. hort. Herrenbus. 1. p. 14. t. 9.*

Plant green with straight hairs: flowers white.

ceratophyllum. Umbels many-flowered: leaves remotely pinnate, fleshy, cylindrical; the segments channelled and obsoletely 3-cleft.

The Cape. *Curt. mag. t. 315. L'Herit. Gran. t. 13.*

Stem thick, fleshy: petals lanceolate, white.

H. Shrubby: leaves decompose, and more than decompose.

crithmifolium. Umbels many-flowered, panicled: leaves doubly pinnate, fleshy, dilated and cut at top: petals obtuse, the upper-ones curled at the base.

The Cape. *Smith ic. 1. t. 13, Jacq. hort. 2. t. 137.*

ramosissimum. Umbels few-flowered, somewhat panicled: leaves doubly pinnate, with roundish leaflets.

The Cape. *Burm. afr. 89. t. 34 f. 2.*

abrotanifolium. Umbels few-flowered: leaves pinnate in finger-like divisions, the leaflets linear and 3-cleft.

The Cape. *Cavan. diff. 4. t. 117. f. 1. Jacq. hort. 2. t. 136.*

Leaves hoary; all the segments kidney-form.

MONADEL. OCTAND. 1299, 1300. DECAND. 1301. 1077

fruticosum. Peduncles 2-flowered: leaves doubly pinnate and decom-
pound, glabrous; leaflets linear.

The Cape. *Cavan. diss.* 4. t. 122. f. 2.

hirtum. Umbels many-flowered: leaves doubly pinnate and more
than decompose, hairy; leaflets linear, obtuse: stem
fleshy, scaly, decumbent.

The Cape. *Cavan. diss.* 4. t. 117. f. 2. *Jacq. ic. rar.* 3. t. 556.

tenuifolium. Umbels many-flowered: leaves doubly pinnate and more
than decompose, hairy; leaflets linear-subulate:
stem fleshy, not scaly, erect.

The Cape. *L'Herit. Geran. tab.* 12.

ORDER IV. OCTANDRIA: 8 *stamina*.

1299. PISTIA. *Calyx* a tubular-hooded tongue-
shaped spathe: *corol* 0: *filament* lateral: *antheræ*
3—8: *style* 1: *capsule* 1-celled, many-seeded.

Stratiotes. PISTIA.

1. *Jacq. Amer.* t. 148. *Rheed. Mal.* 11. t. 32.

2. *Moris.* 3. f. 15. t. 4. f. inf. *Sloane Jam.* 1. t. 2. f. 2.

Asia, Africa, America, and the West India islands.

Plant stemless, floating: *leaves* disposed in a circle, obovate,
diaphanous, nerved: *flowers* axillary, white.

1300. AITONIA. *Calyx* 4-parted: *petals* 4:
style 1: *berry* dry, quadrangular, 1-celled, ma-
ny-seeded.

capensis. AITONIA.

The Cape. *Curt. mag.* t. 173. *Cavan. diss.* 5. t. 159. f. 1.

Shrub with alternate wrinkled branches: *leaves* fascicled, lan-
ceolate, obtuse, very entire, glabrous: *peduncles* lateral, soli-
tary, 1 flowered, shorter than the leaves: *flowers* flesh-colour.

ORDER V. DECANDRIA: 10 *stamina*.

1301. CRINODENDRUM. *Calyx* 0: *corol* 6-
petalled, campanulate: *style* 1: *capsule* 1-cel-
led, 3-seeded, triangular, bursting elastically at
top.

Patagua. CRINODENDRUM.

Chili. *Cavan. diss.* 5. p. 300. t. 158. f. 1.

Tree evergreen, branching: *leaves* opposite, lanceolate, pointed,
toothed, veined: *flowers* axillary, solitary, erect.

1302. CONNARUS. *Calyx* 5-parted: *petals* 5:
style 1: *capsule* 2-valved, 1-celled, 1-seeded.

- africanus*. Leaves ternate; leaflets oblong, veined, pointed.
Sierra Leona. *Cavan. diss.* 7. p. 375. t. 221.
Leaflets glabrous, entire: flowers panicled, terminal.
- monocarpus*. Leaves ternate; leaflets roundish-ovate, veined.
East Indies, *Burm. Zeyl.* 199. t. 89. *Rhus*.
Racemes erect, terminal: *calyx* a little rufous.
- pentagynus*. Leaves ternate; leaflets roundish-ovate, 3-nerved: flowers with 5 styles.
Madagascar; Guinea. *Cavan. diss.* 7. t. 223.
- decumbens*. Leaves ternate; leaflets obovate, emarginate: stem herbaceous, decumbent.
Hermannia triphylla. *Sp. pl.* 942. *Amœn. acad.* 6. Afr. 25.
The Cape. *Thunb. in Rœm. Arch. Bot.* 1. p. 2. t. 1.
Stem hairy: stipules ovate, acute: leaves hairy: flowers on long peduncles nearly forming a head.
- pinnatus*. Leaves ternate and pinnate; leaflets oblong, veined: petals with 2 bristles at the base.
East Indies. *Cavan. diss.* 7. t. 222. *Rheed. Mal.* 6. t. 24.
Petals lanceolate, with a deflected bristle each side.
- santaloides*. Leaves pinnate; leaflets ovate, pointed: peduncles axillary, aggregate: flowers racemed.
East Indies. *Vabl. symb.* 3. p. 87. *Willd.* 3. p. 693.
Leaves unevenly pinnate, very entire, glabrous.
- memosoides*. Leaves pinnate, with about 10 pair of leaflets; leaflets oval-oblong, emarginate: racemes axillary.
Nicobar Islands. *Vabl. symb.* 3. p. 87.
Branches villous above: leaflets glabrous, obtuse.

1303. HUGONIA. *Calyx* 5-parted, unequal:
petals 5: *styles* 5: *drupe* 1-seeded, with a striate
and about 10-celled nut.

- Myrtax*. Spines opposite, revolute: leaves ovate, glabrous, very entire.
East Indies. *Rheed. Mal.* 2. p. 29. t. 19.
Tree branched: spines axillary, revolute like tendrils: leaves clustered: flowers in terminal clusters.
- ferrata*. Spines opposite, revolute: leaves ovate-oblong, ferrate; the full-grown ones glabrous both sides.
Mauritius. *Cavan. diss.* 3. t. 73. f. 1. *H. Myrtax*.
Younger branches, younger leaves underneath, peduncles, bristles and *calyx* covered with reddish down.

tomentosa. Leaves oblong, ferrate, downy both sides.

Mauritius. *Cavan. diss. 3. tab. 73. f. 2.*

Leaves obtuse: peduncles axillary, panicled.

1304. SENRÆA. Calyx double; the outer-one 3-leaved, inner 5-toothed: petals 5: style 5-cleft: capsule 5-celled?

incana. SENRÆA.

Arabia. *Cavan. diss. 2. p. 83. t. 33. f. 5.* Senra.

Plant hoary downy: leaves alternate, heart-shaped, truncate and 3-toothed, entire at the margin: peduncles axillary, 1-flowered.

1305. GERANIUM. Calyx 5-leaved: petals 5, regular: nectary 5 glands fixed to the base of the longer filaments: fruit beaked, separating into 5 1-seeded capsules, each tipped with a long simple awn which is neither spiral or bearded.

A. Peduncles 1-flowered.

spinosum. Peduncles 1-flowered: stem fleshy, knotty, with solitary stiff spines.

The Cape. *Cavan. diss. 4. t. 75. f. 2.* Burm. Afr. t. 31.

Stem covered with tubercles each tipped with a long black spine: leaves obovate, entire or slightly crenate.

sessiflorum. Stemless: peduncles 1-flowered, radical: leaves kidney-form, with 7 trifid lobes.

Magellan's Straits. *Cavan. diss. 4. t. 77. f. 2.*

Leaves not silky: peduncles as long as the flower.

sibiricum. Peduncles 1-flowered: stem erect, branched: leaves in 5 palmate lobes; the lobes oblong and cut-toothed.

Siberia; China. *Cavan. diss. 4. t. 77. f. 1.* Gmel. Sib. 3. t. 77.

Stems diffuse: lobes pinnatifid: petals hardly notched.

sanguineum. Peduncles 1-flowered: leaves nearly orbicular, 5 or 7-parted, with the lobes 3-cleft.

Rocky pastures. *Eng. bot. t. 272. Cavan. diss. 4. t. 76. f. 1.*

2. Prostrate. *Cavan. diss. 4. t. 76. f. 3.* G. prostratum.

B. Peduncles 2-flowered, perennial.

tuberosum. Peduncles 2-flowered: leaves many-parted, with linear pinnatifid obtuse divisions.

Italy. *Cavan. diss. 4. p. 199. t. 78. f. 1.*

Divisions of the stem-leaves sometimes linear and entire.

- anemonefo-
lium*. Peduncles 2-flowered: leaves in 5 palmate divisions; the divisions doubly pinnatifid and toothed: stem shrubby.
Madeira. *Curt. mag. t. 206. Cavan. diss. 4. t. 84. f. 2.*
Divisions of the leaves oblong, acute: flowers red.
- macrobi-
zum*. Peduncles 2-flowered: calyxes glo-ularly inflated: petals entire: leaves 5-lobed, toothed: stem forked.
Italy. *Cavan. diss. 4. t. 85. f. 1. Jacq. ic. rar. 1. t. 134.*
Calyx globular, angular, red: pistil long, declined.
- *phaeum*. Peduncles 2-flowered, in a leafy panicle: stem erect: petals undulate: capsules carinate, bristly at the base, wrinkled at top.
Pastures. *Eng. bot. t. 322. Cavan. diss. 4. t. 89. f. 2.*
- fuscum*. Peduncles in pairs, 2-flowered, opposite the leaves: stem spreading: petals very entire.
South of Europe. Peduncles not solitary as in the last: leaves rigid: petals mucronate, not undulate.
- reflexum*. Peduncles 2-flowered, alternate: leaves alternate: petals reflected, jagged, as long as the unawned calyx.
Italy. *Cavan. diss. 4. p. 208. tab. 81. f. 1.*
Leaves wrinkled, downy, not spotted: flowers red, drooping.
- lividum*. Leaves 7-lobed: calyxes simple, hairy: petals flat, slightly undulate.
France; Switzerland. *L'Herit. Geran. t. 39.*
Lobes oblong, pointed, toothed, pubescent underneath.
- *nodosum*. Peduncles 2-flowered: petals emarginate: leaves in 3 oblong pointed ferrate lobes: capsules even, every where hairy.
Hilly pictures. *Eng. bot. t. 1091. Cavan. diss. 4. t. 80. f. 1.*
- striatum*. Peduncles 2-flowered: petals 2-lobed, reticulate with veins: upper-leaves with 3 ovate acute toothed lobes: stem round: capsules nearly glabrous, villous at the base.
Italy. *Curt. mag. t. 55. Cavan. diss. 4. t. 79. f. 1.*
Leaves with a brown spot at the cavities of the lobes.
- angulatum*. Peduncles 2-flowered: petals emarginate, reticulate with veins: upper-leaves 5-lobed, toothed; radical-ones 7-lobed.
— *Curt. mag. tab. 203.*
- ibericum*. Peduncles 2-flowered: petals 2-lobed, with a tooth between the lobes: leaves 7-lobed, cut-toothed: stem villous.
Iberia. *Cavan. diss. 4. p. 209. t. 124. f. 1.*
Stem thickly clothed with long straight white hairs.

- **sylvaticum* Peduncles 2-flowered: leaves 5 or 7-lobed, cut-ferrate: stem erect, corymbed: capsules every where hairy: stamina subulate.
Thickets. *Eng. bot. t. 121. Cavan. diss. 4. t. 85. f. 2.*
- palustre.* Peduncles 2-flowered, very long, declined: leaves 5-lobed, toothed: stem decumbent, ascending: petals entire.
Germany. *Cavan. diss. 4. t. 87. f. 2. Flor. Dan. t. 596.*
Stem weak, hairy: lobes of the leaves 3-cleft, toothed.
- asphodeloides.* Peduncles 2-flowered: petals emarginate, thrice as long as the calyx: stem flaccid, with reflected hairs: leaves with 5 3-cleft rather obtuse lobes.
The East. *Willd. Schrad. Journ. 2. p. 23. t. 1.*
- aconitifolium.* Peduncles 2-flowered: leaves somewhat peltate, 7-parted, with the lobes jagged: stem ascending: petals larger than the calyx: calyx and peduncles villous.
Alps. *L'Herit. Geran. t. 40. Fill. delph. 3. t. 40.*
Petals white with straight longitudinal red lines.
- collinum.* Peduncles 2-flowered: leaves somewhat peltate, 7-parted, with the lobes jagged: petals as long as the calyx: calyx and peduncles glandular-pubescent.
Siberia. *Willd. sp. pl. 3. p. 705. n. 20.*
Peduncles and calyx clothed with white pubescence composed of hairs glandular at top: petals violet.
- **pratense.* Peduncles 2-flowered: leaves 5 or parted; the lobes nearly pinnate, acute, wrinkled: capsules every where hairy: stamina deltoid at the base.
Meadows. *Eng. bot. t. 404. Curt. Lond. fasc. 4. t. 49.*
- maculatum.* Peduncles 2-flowered: stem forked, erect: leaves 5-parted and cut, the upper-ones sessile.
America. *Cavan. diss. 4. t. 81. f. 2. Dill. elth. t. 131. f. 159.*
- pilosum.* Peduncles 2-flowered: leaves 3-parted, with trifid obtuse divisions: stem decumbent, hairy.
New Zealand. *Forst, prodr. 531. Willd. 3. p. 706.*
Leaflets glabrous, entire and ciliate at the margin.
- canescens.* Peduncles 2-flowered: leaves somewhat peltate, 5-parted, a little hoary underneath; the lobes cut: petals emarginate.
The Cape. *L'Herit. Geran. tab. 38.*
Leaves with oblong cut lobes, but not pinnatifid.
- incanum.* Peduncles 2-flowered: leaves 7-parted, hoary underneath; the lobes pinnatifid and linear: petals entire.
The Cape. *Cavan. diss. 4. t. 82. f. 2.*; but the petals are notched.
Leaves downy underneath.

argenteum. Peduncles 2-flowered, nearly radical: leaves 7-parted, silky-downy both sides, with linear 3-cleft divisions: petals emarginate.

Alps. *Curt. mag. t. 504. Cavan. diss. 4. t. 77. f. 3.*

varium. Peduncles 2-flowered, nearly radical: leaves 5-parted, glaucous and pubescent both sides, with wedge-form lanceolate 3-cleft divisions: petals emarginate.

Pyrenees. *Cavan. diss. 4. t. 89. f. 1. L'Herit. Geran. t. 37.*

Plant mostly stemless: leaves 5 or 7-parted.

* *pyrenai-cum*. Peduncles 2-flowered: leaves kidney-form, 7-lobed; the lobes oblong, obtuse, 3-cleft, with 3-toothed divisions: stem erect, branched: petals emarginate.

Pastures. *Eng. bot. t. 405. Curt. Lond. fasc. 3. t. 42.*

C. Peduncles 2-flowered: annual.

bohemicum. Peduncles 2-flowered: petals emarginate, as long as the calyx: leaves 5-lobed, toothed: capsules hairy.

Bohemia. *Cavan. diss. 4. t. 81. f. 2. Dill. elth. t. 133. f. 160.*

Plant pubescent, viscid: corol blue: capsules black.

divaricatum. Peduncles 2-flowered: petals emarginate, shorter than the calyx: leaves 5-lobed, toothed; one of the lateral-lobes longer: capsules rough, wrinkled and veined above.

Hungary; Siberia. *Willd. sp. pl. 3. p. 709. n. 30.*

* *lucidum*. Peduncles 2-flowered: leaves rounded, 5-lobed: calyx transversely wrinkled: capsules with numerous grooves.

Banks. *Eng. bot. t. 75. Cav. diss. 4. t. 80. f. 2. Fl. Dan. t. 218.*

* *molle*. Peduncles 2-flowered, alternate, opposite the leaves: leaves downy, rounded, 7 and 9-lobed; the lobes 3 or 4-cleft: capsules glabrous, transversely wrinkled.

Pastures. *Eng. bot. t. 778. Curt. Lond. fasc. 2. t. 50.*

carolinianum. Peduncles 2-flowered, crowded at top: petals emarginate, as long as the awned calyx: leaves with 5 trifid-cut lobes: capsules villous.

Carolina. *Cavan. diss. 4. t. 124. f. 2. Jacq. hort. 2. t. 140.*

Corol flesh-colour, hardly longer than the calyx.

* *columbinum*. Peduncles 2-flowered, thrice as long as the leaves: leaves 5-parted; the lobes in many linear divisions: petals emarginate, as long as the awned calyx: capsules glabrous, not wrinkled.

Fields. *Eng. bot. t. 259. Cavan. diss. 4. t. 82. f. 1.*

* *dissectum*. Peduncles 2-flowered: leaves 5-parted, with trifid linear divisions: petals emarginate, as long as the awned calyx: capsules with glandular hairs.

Fields. *Eng. bot. t. 753. Curt. Lond. fasc. 6. t. 45.*

- *rotundifolium*. Peduncles 2-flowered: petals entire, as long as the awned calyx: root-leaves kidney-form, 7-lobed; stem-leaves roundish, truncate at the base, 5-lobed and 3-cleft: capsules hairy.

Walters. *Eng. bot. t.* 157. *Cavan. diss.* 4. t. 93. f. 2.

- *pusillum*. Peduncles 2-flowered: antheræ 5: petals emarginate: leaves kidney-form, in 6 or 7 palmate trifid divisions: capsules not wrinkled, hairy.

Hedges. *Eng. bot. t.* 385. *Cavan. diss.* 4. t. 83. f. 1, 2.

- *robertianum*. Peduncles 2-flowered: leaves in 3 and 5 trifid-pinnatifid divisions: petals entire, twice as long as the awned calyx: capsules reticulate.

Woods. *Cav. diss.* 4. t. 86. f. 1. *Blackw. t.* 480. *Fl. Dan.* t. 694.

- *purpureum*. Peduncles 2-flowered: leaves in 3 and 5 trifid-pinnatifid divisions: petals entire, a little longer than the awned calyx: capsules with 3 transverse wrinkles at top.

Sea coasts. *Vill. delph.* 3. p. 374. t. 40.

Stem ascending: leaves 5 times less than the last: petals shorter: capsules with 3 elevated wrinkles at top and reticulate beneath.

ORDER VI. ENDECANDRIA: 11 *stamina*.

1306. BROWNEA. *Calyx* tubular, cloven: *corol* double; the outer 5-cleft, inner 5-petalled: *legume* 1-celled.

- coccinea*. Stamina as long as the corol: flowers somewhat aggregate: branches glabrous.

America. *Jacq. Amer.* 194. tab. 121.

Shrub with a cinereous bark: leaves oval, entire, glabrous: flowers pendulous: corol scarlet: stamina 10, yellowish.

- grandiceps*. Stamina as long as the corol: flowers in spiked heads: branches pubescent.

Caraccas. *Jacq. collect.* 3. p. 287. t. 22 f. a—1.

Leaflets reticulate, pubescent: flowers scarlet.

- Rosa de Monte*. Stamina twice as long as the corol: flowers in heads.

America. *Berg. Philos. Transf.* 63. p. 171. t. 8, 9.

Flowers red, in a head as large as the fist.

- pauciflora*. Stamina half as long again as the corol: flowers 3 or 4, terminal, sessile.

Guiana. *Aubl. Gui.* 1. p. 365. t. 141. Palone.

Leaves simple, alternate: outer-corol 4-cleft, inner 3-petalled.

ORDER VII. DODECANDRIA: 12--20 *stamina*.

1307. ACIA. *Calyx* 5-parted: *petals* 5: *drupe* dry, coriaceous, fibrous, 1-seeded.

dulcis. Petioles glabrous.

Guiana. *Aubl. Gui.* 2. p. 698. t. 280. *Acioa*,

Tree 60 feet high: *leaves* alternate, oblong, pointed, entire, glabrous: *calyx* white, *corol* violet: *nut* with a brittle shell: *kernel* like that of the Almond, and of a sweetish pleasant taste.

amara. Petioles with ferruginous pubescence.

Guiana. *Aubl. Gui.* 1. p. 519. t. 207. *Conepia*.

Tree 60 feet high: *kernel* bitter and not eatable.

1308. MONSONIA. *Calyx* 5-leaved: *petals* 5: *stamina* 15, united, with the cup connecting them 5-cleft: *style* 5-cleft: *fruit* separating into 5 1-seeded capsules, each tipped with a long terminal awn.

renuifolia. Leaves more than decompose, with linear-subulate leaflets: *petals* toothed.

The Cape. *Cavan. diss.* 4. t. 75. f. 1. *Geranium grandiflorum*.

Peduncles 1-flowered: *flowers* large, yellowish.

speciosa. Leaves in 5 palmate divisions; the leaflets doubly pinnate: *petals* cut-toothed.

The Cape. *Curt. mag.* t. 73. *Cavan. diss.* 3. t. 74. f. 1.

Peduncles 1-flowered: segments of the *leaves* linear.

lobata. Leaves heart-shaped, lobed and toothed: *petals* toothed.

The Cape. *Curt. mag.* t. 385. *Cavan. diss.* 3. t. 74. f. 2.

Leaves 7-lobed, slightly pubescent: *peduncles* 1-flowered.

ovata. Leaves oblong, hearted, toothed, plaited: *petals* slightly toothed.

The Cape. *Cav. diss.* 4. p. 193. t. 113. f. 1. *L'Herit. Geran.* t. 41.

Flowers axillary, whitish-yellow, with 3 longitudinal lines.

spinosa. Leaves elliptic, pointed, very entire: *petioles* permanent, spinous: *petals* slightly toothed.

— *L'Herit. Geran. tab.* 42.

Spines not seated on tubercles: *leaves* very entire.

1309. **PLAGIANTHUS.** *Calyx* 5-cleft: *petals* 5, 2 of them approximate and remote from the rest: *style* 1: *stigma* clavate: *berry* —.

divaricatus **PLAGIANTHUS.**

New Zealand. *Forst. Char. Gen. tab. 43.*

Shrub with brown divaricate branches: *leaves* tufted, linear, tapering to the base: *flowers* solitary.

1310. **HELICTERIS.** *Calyx* tubular, obliquely 5-cleft: *petals* 5: *germ* on a very long pedicel: *style* about 5-cleft: *capsules* 5, 1-celled, many-seeded, spirally twisted. *Screw-tree.*

Baruensis. Decandrous: *leaves* heart-shaped, sharply serrate, downy underneath: *fruit* twisted, with the tips straight.

Baru island. *Jacq. Amer. t. 149. pict. t. 227.*

Tree slightly branched: *leaves* acute, wrinkled, whitish underneath: *peduncles* many-flowered: *pedicels* glandular: *calyx* 2-lipped; the upper-lip bifid, lower trifid.

jamaicensis. Decandrous: *leaves* hearted, unequally serrate, pubescent, downy underneath: *fruit* ovate, twisted, acute.

Jamaica. *Jacq. Amer. t. 179. f. 99. Pluk. alm. t. 245. f. 3.*

Flowers terminal: *calyx* campanulate, mealy-pubescent.

Isora. Decandrous: *leaves* elliptic, somewhat hearted, tooth-serrate, pointed, rough, downy underneath: *flowers* axillary: *fruit* twisted, subulate at top.

Malabar. *Rheed. Mal. 6. t. 30. Rumph. amb. 7. t. 17. f. 1.*

Calyx tubular-clavate, 2-lipped: *petals* obovate.

hirsuta. Decandrous: *leaves* ovate, pointed, serrate, somewhat hearted, downy: *peduncles* many-flowered, axillary: *fruit* oblong, straight, very hairy.

Cochinchina. *Lour. Cochinch. 2. p. 648.*

Calyx with a long curved hairy coloured tube.

angustifolia *Leaves* lanceolate, very entire: *fruit* ovate, straight.

China. *Off. it. 232. tab. 3.*

Leaves naked above, downy underneath: *flowers* scattered.

pentandra. Pentandrous: *leaves* ovate; the floral-ones coloured.

Surinam. *Leaves* serrate; the floral-ones dull purple: *calyx* with branched bristles: *capsules* twisted, hairy.

carthagenensis. Polyandrous: *leaves* heart-shaped, serrate: *fruit* oblong, straight.

Carthage. *Jacq. Amer. t. 150. pict. t. 228.*

Leaves downy both sides: *flowers* purple, fetid.

apetala. Dodecandrous, without petals: leaves 5-lobed: filiques divaricate.

Carthageria. *Jacq. Amer. t. 181. f. 98. pict. t. 263. f. 74.*

Tree with plaited leaves villous underneath: *stamina* 14.

1311. CIENFUEGIA. *Calyx* double, the outer of 12 setaceous leaves: *petals* 5: *style* filiform: *stigma* clavate: *capsule* 3-celled, 3-seeded.

digitata. CIENFUEGIA.

Senegal. *Cavan. diss. 3. p. 174. t. 72. f. 2.*

Leaves glabrous, 3 or 4-parted: *peduncles* axillary, 1-flowered: *inner-calyx* 5-parted: *capsule* 3-celled, the cells 1-seeded.

1312. ASSONIA. *Calyx* double; the outer 1-leaved, lateral, bracte-like, tricuspidate: *petals* 5: *stamina* 20, of which 5 are barren: *styles* 5: *capsules* 5, united, 1-celled, 2-seeded.

populnea. ASSONIA.

Bourbon. *Cavan. diss. 3. p. 120. t. 42. f. 1.*

Leaves alternate, glabrous both sides, ovate-lanceolate, crenate: *flowers* white, in a bifid terminal corymb.

1313. DOMBEYA. *Calyx* double; the outer 3-leaved, deciduous: *petals* 5: *stamina* 10 or 20, 5 of them barren: *style* 5-cleft: *capsules* 5, united, 1-celled, 1 or many-seeded.

palmata. Leaves glabrous, heart-shaped, in 7 palmate lobes; the lobes lanceolate, ferrate: corymb bifid.

Bourbon. *Cavan. diss. 3. p. 122. t. 38. f. 1.*

acutangula. Leaves oblong, heart-shaped, 5-angled, pointed, crenate; the younger-ones ferruginous downy: corymbs bifid.

Bourbon. *Cavan. diss. 3. p. 123. t. 38. f. 2.*

angulata. Leaves roundish, heart-shaped, toothed, downy, obsoletely tricuspidate: umbels simple, axillary.

Bourbon. *Cavan. diss. 3. p. 123. t. 39. f. 1.*

Leaves with a prominent angle each side near the top.

tiliaefolia. Leaves roundish, heart-shaped, crenate; the younger-ones downy: corymb bifid.

Bourbon. *Cavan. diss. 3. p. 124. t. 39. f. 2.*

tomentosa. Leaves roundish, heart-shaped, pointed, crenate, downy: umbels bifid.

Madagascar. *Cavan. diss. 3. p. 125. t. 39. f. 3.*

umbellata. Leaves ovate, pointed, hearted, glabrous, slightly repand: umbels simple, in many-flowered heads.

Bourbon. *Cavan. diss. 3. p. 127. t. 41. f. 1.*

ferruginea. Leaves somewhat peltate, ovate-oblong, somewhat hearted, ferrulate, glabrous above, ferruginous downy underneath: corymbs 2-parted.

Mauritius. *Cavan. dys.* 3. p. 128. t. 42. f. 2.

Erythroxy-
lon. Leaves somewhat peltate, ovate, pointed, hearted, crenulate, downy and reticulate underneath: peduncles about 3-flowered: flowers pentandrous.

St. Helens. *Pluk. mant.* 6. t. 333. f. 1. *Alcea.*

Corol large: *stamina* 10, of which 5 are barren.

decanthera. Leaves elliptic, pointed, repand-toothed, glabrous: umbels simple: flowers pentandrous.

Madagascar. *Cavan. diss.* 3. p. 126. t. 40. f. 2.

Stamina 10, 5 of them barren, shorter and filiform.

velutina. Leaves ovate-lanceolate, ferrate, downy: umbels axillary, simple, 4-flowered: flowers pentandrous.

Arabia Felix. *Filaments* 10, 5 of them barren.

ovata. Leaves elliptic, downy, toothed, very entire at the base: corymb 2-parted.

Bourbon. *Cavan. diss.* 3. p. 127. t. 41. f. 2.

punctata. Leaves oblong-ovate, slightly toothed, rough with dots above, downy underneath: corymbs bifid, in heads.

Bourbon. *Cavan. diss.* 3. p. 125. t. 40. f. 1.

1314. PENTAPETES. *Calyx* double; the outer 3-leaved, caducous: *petals* 5: *stamina* 20, 5 of them barren: *style* obsoletely 5-toothed: *capsules* 5-celled, many-seeded, with the partitions contrary.

phenicea. PENTAPETES.

East Indies. *Cavan. diss.* 3. t. 43. f. 1. *Dombeya.*

Plant with halbert shaped lanceolate leaves, slightly ferrate: *involucre* 3-leaved: *flowers* axillary, scarlet, drooping.

1315. PTEROSPERMUM. *Calyx* single, 5-parted: *petals* 5: *stamina* 20, 5 of them barren: *style* cylindrical: *stigma* thickish: *capsule* woody, 5-celled: *seeds* winged.

suberifolium Leaves oblong, pointed, slightly toothed at top.

East Indies. *Cavan. diss.* 3. t. 43. f. 2. *Pentapetes.*

Tree with ferruginous-downy branchlets: *leaves* alternate, coriaceous, glabrous above, white-downy underneath.

acerifolium. Leaves peltate, rounded, pointed, slightly repand.

East Indies. *Curt. mag.* t. 620. *Cavan. diss.* 3. t. 44.

Tree with a white woolly bark: *leaves* white-woolly underneath: *flowers* white, terminal: *calyx* coriaceous.

ORDER VIII. POLYANDRIA: *many stamina.*

1316. CAROLINEA. *Calyx* single, somewhat truncate: *filaments* branched: *style* very long: *stigmata* 6: *capsule* woody, 1-celled, many-seeded.

princeps. Leaves in 3 or 5 finger-like divisions; leaflets ovate-lanceolate.

Guiana. *Cavan. diff.* 3. t. 72. f. 1. *Aubl. Gui.* 2. t. 291, 292.

Tree with very entire leaves: flowers axillary, solitary, sessile, very large, yellow: *filaments* red: *antheræ* purple.

insignis. Leaves in 5 or 7 finger-like divisions; leaflets ovate-oblong. South America. *Cavan. diff.* 5. t. 154. Bombax.

1317. ADANSONIA. *Calyx* single, deciduous: *style* very long: *stigmata* numerous: *capsule* woody, 10-celled: *seeds* numerous, imbedded in farinaceous pulp.

digitata. ADANSONIA. Sour gourd. Monkeys' bread.

Senegal; Egypt. *Cavan. diff.* 5. t. 157. *Alp. Egypt.* t. 57.

Tree with a vast trunk: leaves in 3 or 5 finger-like divisions: fruit of a very pleasant acid flavor.

1318. BOMBAX. *Calyx* single, 5-cleft: *stamina* 5 or more: *capsule* woody, 5-celled, 5-valved: *seeds* woolly: *receptacle* 5-sided. Silk-cotton.

pentandrum Flowers pentandrous: *antheræ* anfractuous: leaves in 7 finger-like divisions.

East Indies. *Jacq. Amer.* t. 176. f. 70. *Cavan. diff.* 5. t. 151.

Erianthos. Flowers pentandrous: *antheræ* simple, erect: leaves in 7 finger-like divisions.

Brazil. *Cavan. diff.* 5. tab. 152. f. 2.

Ceiba. Flowers polyandrous: leaves in 5 finger-like divisions.

America. *Cavan. diff.* 5. t. 152. f. 2. *Jacq. Amer.* t. 176. f. 71.

Trunk prickly, and made into Canoes by the natives.

heptaphyllum. Flowers polyandrous: leaflets 7.

America. *Rheed. Mal.* 3. t. 52. *Pluk. alm.* t. 188. f. 4.

globosum. Flowers —: leaflets 5 or 7, obovate, emarginate: fruit globular.

Cayenne. *Cavan. diff.* 5. t. 155. *Aubl. Gui.* 2. t. 281.

gossypinum. Flowers polyandrous: leaves 5-lobed, pointed, downy underneath.

East Indies. *Cavan. diff.* 5. t. 156. *Sonner. it.* 1. t. 133.

1319. LAGUNÆA. *Calyx* single, 5-cleft: *style* 5-cleft: *capsule* 5-celled, 5-valved, with the partitions contrary.

lobata. Leaves heart-shaped, 3-lobed, toothed.
Bourbon. *Cavan. diff.* 5. t. 136. f. 1. *L'Herit. stirp.* 1. t. 49.

ternata. Leaves ternate and simple, very entire.
Senegal. *Cavan. diff.* 5. t. 136. f. 2. Solandra.
Upper-leaves undivided, lanceolate, obtuse.

aculeata. Leaves ternate; leaflets cut-toothed: stem muricate.
Coromandel. *Cavan. diff.* 3. t. 71. f. 1. Laguna.
Stem downy, armed with small upright prickles: *flowers* yellow:
stigma red, peltate: *capsule* 5-fided.

1320. SIDA. *Calyx* single, angular: *style* many-parted: *capsules* numerous, 1 or 3-seeded.

A. Leaves narrow lanceolate, oblong, and ovate.

linifolia. Leaves linear, very entire: racemes terminal: capsules with hardly any beak.

Peru; Cayenne. *Cavan. diff.* 1. p. 14. t. 2. f. 1.

Leaves rough with hairs: capsules 5.

angustifolia Leaves linear-lanceolate, toothed: peduncles mostly solitary, axillary: capsules bicuspidate.

Brazil. *Cavan. diff.* 1. t. 2. f. 2. *L'Herit. stirp.* 1. t. 52.

Flowers yellow: capsules 5, with 2 beaks.

acuta. Leaves linear-lanceolate, toothed: peduncles axillary, solitary: capsules bicuspidate: stipules lanceolate.

Java. *Cavan. diff.* 1. t. 2. f. 3. *Rheed. Mal.* 10. t. 53.

canariensis. Leaves lanceolate, somewhat linear, toothed, glabrous: peduncles axillary, solitary, as long as the leaves: capsules 2-beaked.

Canaries. *Cavan. diff.* 1. t. 3. f. 8. Capsules 9 or 10.

lanceolata. Leaves oblong-lanceolate, toothed, nearly glabrous: peduncles axillary, solitary: capsules 2-beaked: stipules linear, nerved, longer than the peduncle.

Ceylon. *Cavan. diff.* 1. t. 3. f. 10. Capsules 5—9.

spinosa. Leaves ovate-lanceolate, obsoletely hearted, toothed: peduncles axillary, mostly solitary; the axils somewhat spinous: stipules setaceous, longer than the peduncle: capsules 2-beaked.

Indies. *Cavan. diff.* 1. t. 1. f. 9. *Comm. hort.* 1. t. 2.

frutescens. Leaves ovate-oblong, serrate: peduncles axillary, 1-flowered: capsules 2-beaked.

— *Cavan. diff.* 1. t. 10. f. 1. Capsules 5.

carpinifolia. Leaves ovate-oblong, somewhat doubly ferrate: peduncles axillary, 3 or 4-flowered: capsules 2-beaked.

— Madeira. *Cavan. diss.* 5. t. 134. f. 1. *Jacq. ic. rar.* 1. t. 135.
Leaves ending in a rigid hair: capsules 8.

jamaicensis. Leaves ovate, ferrate, downy: flowers axillary, slightly peduncled: capsules 5, 2-horned.

Jamaica. *Cavan. diss.* 1. t. 2. f. 5. Leaves 2-rowed.

orientalis. Leaves ovate, pointed, toothed, glabrous: peduncles 1-flowered, axillary: capsules 2-awnless.

— East Indies. *Cavan. diss.* 1. t. 12. f. 5. Capsules 9 or 10.

glomerata. Leaves ovate-lanceolate, ferrate: flowers 4 or 5 together, axillary, nearly sessile: capsules 2 horned.

— *Cavan. diss.* 1. p. 18. t. 2. f. 6.

Plant downy: calyx ciliate: capsules 5.

maculata. Leaves ovate, obtuse, ferrate, downy: peduncles axillary, in racemes at top of the stem: capsules 2-horned.

St. Domingo. *Cavan. diss.* 1. p. 10. t. 3. f. 7.

Capsules 9: corol yellow with 5 red spots at the base.

suberosa. Leaves ovate, toothed, hairy: peduncles axillary, 1-flowered, twice as long as the petioles: capsules 2-horned: stem corky at the base.

Hispaniola. *L'Herit. Stirp.* 1. t. 54. Capsules 9.

capensis. Leaves ovate-lanceolate, toothed: peduncles solitary: stipules linear, ciliate, longer than the petioles: capsules 10, awnless.

The Cape. *Cavan. diss.* 1. t. 12. f. 3. *Pluk. alm.* 1. 240. f. 5.

microphylla. Leaves elliptic, toothed: peduncles solitary, longer than the petioles: capsules 2-horned.

East Indies. *Cavan. diss.* 1. t. 12. f. 2. Capsules 7.

unicans. Leaves ovate, obtuse, ferrate, downy, shining: peduncles solitary, much longer than the petioles: capsules 2-horned.

St. Domingo. *Cavan. diss.* 1. t. 3. f. 4. Calyx 10-angled.

pusilla. Leaves roundish-elliptic, toothed, glabrous: peduncles solitary, longer than the petioles: capsules 2-awnless: stem prostrate.

Mahé Island. *Cavan. diss.* 1. t. f. 4. t. 127. f. 1. Capsules 5.

B. Leaves wedge-form.

rhombifolia. Leaves oblong-lanceolate, toothed, wedge-form and very entire at the base: peduncles much longer than the petioles: capsules 2-horned.

East Indies. *Cavan. diss.* 1. 3. f. 12. *Dill. elib.* 1. 172. f. 212.

anacardi. Leaves rhombic, ovate, toothed at top, downy underneath: peduncles longer than the leaves.

Senegal. *Cavan. diss.* 1. 8 f. 3. Stipules setaceous, black.

retusa. Leaves obovate, toothed and retuse at top, downy underneath: peduncles solitary, longer than the leaves: capsules awnless.

East Indies. *Cavan. diss.* 1. 3. f. 4. r. 131. f. 2. Capsules 9.

alnifolia. Leaves roundish-obovate, toothed, very entire at the base: peduncles numerous, axillary, shorter than the leaves: capsules 2-horned.

East Indies. *Dill. elth.* 1. 172. f. 211. Capsules 6 or 7.

ciliaris. Leaves lanceolate, truncate, toothed, slightly wedge-shaped at the base: stipules linear, ciliate, longer than the flower: flowers solitary, nearly sessile: capsules awnless, muricate.

Jamaica. *Cuv. r.* 3. f. 9. r. 127. f. 2. *Sloane's Jam.* 1. 1. 137. f. 2.

Flowers red: capsules 5, depressed, not horned.

C. Leaves heart-shaped, very entire.

periplocifolia. Leaves heart-lanceolate, pointed, very entire, downy underneath: peduncles somewhat divided, longer than the petiole: capsules awned.

America. *Cavan. diss.* 1. 1. 5. f. 2. *Sloane's Jam.* 1. 1. 139. f. 3.

Capsules 5, 3-seeded, each with a single terminal awn.

excalijora. Leaves hearted, ovate, pointed, very entire, downy underneath: racemes panicle: capsules 2-toothed.

Peru. *Cavan. diss.* 1. p. 27. t. 5. f. 3. Capsules 5.

bernardoides. Leaves somewhat peltate, hearted, ovate, pointed, nearly very entire, pubescent: peduncles 1-flowered: capsules not awned.

Hispaniola. *L'Herit. stirp.* 1. 1. 58. Capsules 5, acute.

audiflora. Leaves roundish-hearted, nearly very entire, downy underneath: panicle terminal, racemed: capsules not awned.

Peru. *Cavan. diss.* 1. 1. 5. f. 4. *L'Herit. stirp.* 1. 1. 59.

Leaves obsoletely crenate: capsules 5—7, 3-seeded.

D. Leaves heart-shaped, toothed: peduncles 1-flowered.

triquetra. Leaves heart-shaped, pointed, serrulate: peduncles solitary: capsules not awned, truncate: branches 3-sided.

South America. *Cavan. diss.* 1. 1. 5. f. 1. *Jacq. hort.* 1. 118.

Leaves very soft, obtusely serrate: corol yellow with a purple base: capsules 5, 3-seeded: style 3-cleft.

fragrans. Leaves roundish-hearted, pointed, crenate, hairy and viscid: peduncles solitary, shorter than the petiole: capsules with 2 bristles.

Hispaniola. *L'Herit. stirp.* 1. 1. 53. Capsules 5, 1-seeded.

- lignosa.* Leaves roundish-hearted, pointed, crenate, downy: peduncles solitary, longer than the petiole: capsules not awned.
St. Domingo. *Cavan. diss.* 1. t. 6. f. 2. Capsules 2-seeded.
- reflexa.* Leaves roundish-hearted, pointed, crenate, downy: peduncles solitary, longer than the petiole: petals wedge-form, toothed at top, reflected.
Peru. *Cavan. diss.* 1. t. 7. f. 7. & 6. t. 195. f. 1.
Flowers large, scarlet: capsules 12, 3-seeded.
- humilis.* Leaves roundish-hearted, hairy above, serrate: peduncles solitary, longer than the petiole: capsules not awned.
India. *Cavan. diss.* 5. t. 134. f. 2. 2) *Cav. diss.* 1. t. 1. f. 1.
3) *Cavan. diss.* 1. t. 1. f. 3. & *diss.* 5. t. 127. f. 3.
Stem rough: capsules 5, not awned, 1-seeded.
- repens.* Leaves roundish-hearted, toothed, bristly both sides: peduncles solitary, longer than the petiole: stem filiform, prostrate.
Peru. *Cavan. diss.* 1. p. 1. tab. 1. f. 2. Capsules 5.
- biwalvis.* Leaves ovate-hearted, pointed, crenate, downy: peduncles solitary, shorter than the petiole: calyx somewhat awned: capsules cohering, 2-toothed.
St. Domingo. *Cavan. diss.* 1. t. 11. f. 3. Capsules 5.
- ulmifolia.* Leaves ovate-hearted, pointed, crenate: peduncles solitary, about as long as the petiole: capsules with long hooked beaks.
St. Domingo. *Cavan. diss.* 1. t. 2. f. 4. Capsules 5.
- multiflora.* Leaves ovate-hearted, rather obtuse, toothed, downy: peduncles solitary, longer than the petiole: capsules with 2 long beaks.
Brasil. *Cavan. diss.* 1. t. 3. f. 3. Capsules 9.
- microsperma.* Leaves roundish-hearted, acute, slightly crenate: peduncles solitary, shorter than the petiole: capsules with 2 ciliate beaks.
—— *Cavan. diss.* 1. t. 13. f. 4. Capsules about 13.
- viscosa.* Leaves ovate-hearted, pointed, very finely serrate, downy-viscid, hairy: peduncles mostly solitary, longer than the petiole: capsules not beaked.
Jamaica. *Sloane Jam.* 1. t. 139. f. 4. Plant viscid.
- fatida.* Leaves roundish-hearted, rather acute, toothed, downy: peduncles solitary, shorter than the petiole: capsules not beaked.
Peru. *L'Herit. stirp.* t. t. 53. S. viscosa.
Leaves not pointed or hairy, coarsely toothed: capsules 7.

- calycina*. Leaves roundish-hearted, pointed, repand-toothed: peduncles solitary, longer than the petiole: capsule not beaked, pear-shaped.
 Bourbon. *Cavan. diss.* 1. t. 8. f. 2. Capsules 5.
- crispa*. Leaves oblong-hearted, pointed, crenate; the upper-ones sessile: peduncles solitary, longer than the petiole, deflected when in fruit: capsules inflated, not beaked, waved and curled.
 Carolina. *Cavan. diss.* 1. t. 7. f. 1. & *diss.* 5. t. 135. f. 2.
 Stem downy: stipules subulate: capsules 12, 3-seeded.
- persica*. Lower-leaves petioled, hearted, pointed; upper-ones sessile, lanceolate, toothed: peduncles solitary, 1-flowered.
 Persia. *Cavan. diss.* 1. t. 4. f. 1. Capsules many, not beaked.
- sylvatica*. Leaves ovate-hearted, pointed, crenate: peduncles in pairs, much longer than the petiole: capsules not beaked, forming a head.
 Peru. *Cavan. diss.* 5. t. 133. f. 2. Capsules 30—36, 1-seeded.
- arborea*. Leaves orbicular-hearted, crenate, downy: peduncles in pairs, longer than the petiole: capsules not beaked, truncate: stem arboreous.
 Peru. *Cavan. diss.* 1. t. 7. f. 8. & 5. t. 130. *L'Herit.* 1. t. 63.
 Capsules 13—15, many-seeded: stipules lanceolate, ciliate.
- mauritiana*. Leaves roundish-hearted, pointed, toothed, downy underneath: peduncles solitary, longer than the petiole: capsules 2-beaked, truncate, longer than the calyx.
 Mauritius. *Jacq. ic.* 1. t. 137. *Cavan. t.* 7. f. 4. t. 135. f. 1.
- occidentalis*. Leaves oblong-hearted, toothed, somewhat 2-lobed: peduncles solitary, shorter than the petiole: capsules obtuse, globular, nodding.
 America. *Cavan. diss.* 1. t. 4. f. 3. *Dill. elth.* 7. t. 6.
 Capsules 27—30, 1-seeded, collected in a globular head.
- apostolica*. Leaves hearted, oblong, undivided: capsules many-celled, as long as the calyx; the cells lanceolate.
 Jamaica. Leaves downy, serrate: capsules 12-celled.
- Abutilon*. Leaves roundish-hearted, pointed, toothed, downy: peduncles solitary, shorter than the petiole: capsules 2-awned, truncate.
 Indies; Siberia; Switzerland. Capsules 15, 3-seeded.
- abutiloides*. Leaves hearted, undivided, pointed, crenate: peduncles as long as the petioles: capsules 10, 3-seeded.
 Jamaica. *Jacq. obs.* 1. p. 17. t. 7. Leaves downy.
- asiatica*. Leaves oblong-hearted, toothed: peduncles solitary, longer than the petiole: capsules acute, truncate, about as long as the calyx.

India. *Cavan. diss. t. 7. f. 2. t. 128. f. 1. Pluk. phyt. t. 5.*

Capsules about 20, not beaked, hairy, 3-seeded.

populifolia. Leaves roundish-hearted, pointed, unequally repand-toothed: peduncles solitary, longer than the petiole: capsules acute, truncate, longer than the calyx.

East Indies. *Cavan. t. 7. f. 9. t. 128. f. 2.* Capsules 11--19.

hirta. Leaves roundish-hearted, pointed, toothed: peduncles solitary, longer than the petiole: capsules truncate, acute, shorter than the calyx.

East Indies. *Cavan. t. 7. f. 5. t. 129. f. 1.* Capsules 15--17.

indica. Leaves oblong-hearted, rather obtuse, unequally toothed: peduncles longer than the petiole: capsules not beaked, forming a globular head, rough, longer than the calyx.

East Indies. *Cavan. diss. t. 7. f. 10. Moris. 2. sect. 5. t. 19. f. 4.*

Capsules 13--15, 3-seeded, globular and truncate.

mollissima. Leaves roundish-hearted, pointed, toothed: peduncles solitary, 1 or 2-flowered, shorter than the petiole: capsules 2-toothed, truncate, as long as the calyx.

Peru. *Cavan. diss. t. 2. t. 14. f. 1.* Capsules 11, 3-seeded.

Sonnerati-ana. Leaves roundish-hearted, pointed, toothed: peduncles solitary, longer than the leaves: capsules truncate, obtuse, longer than the calyx.

The Cape. *Cavan. diss. t. 6. f. 4.* Capsules 9, 3-seeded.

pubescens. Leaves roundish-hearted, pointed, angular-toothed: peduncles solitary, longer than the petiole: capsules 2-toothed, truncate, longer than the calyx.

St. Domingo. *Cavan. diss. t. 7. f. 6.* Capsules 15, 3-seeded.

altissifolia. Leaves hearted, somewhat angular, serrate-crenate, downy both sides: beaks of the capsules shorter than the calyx.

Jamaica. *Sloane. Jam. 1. t. 136. f. 2.* Capsules 1--12, 1-seeded.

glutinosa. Leaves roundish-hearted, pointed, toothed: peduncles in pairs, 1 or 2-flowered, longer than the petiole: capsules with 2 awns longer than the calyx.

Mauritius. *Cavan. diss. t. 2. f. 8.* Capsules 5.

exstipularis. Leaves ovate-hearted, pointed: peduncles solitary, shorter than the petiole: capsules not awned, shorter than the calyx.

Bourbon. *Cavan. diss. t. 14. f. 2.* Capsules about 30, 1-seeded.

mutans. Leaves oblong-hearted, acute, toothed: peduncles sometimes in pairs, longer than the petiole; those in flower nodding: capsules obtuse.

Peru. *Cavan. diff. 5. t. 133. f. 1. L'Herit. stirp. 1. t. 57.*

Capsules 10 or more, obtuse, depressed, 1-seeded.

borbonica. Leaves roundish-hearted, acute, toothed: peduncles solitary, longer than the petiole: capsules with 2 awns longer than the calyx.

Bourbon. *Cavan. diff. t. 10. f. 2. Capsules* 5, 1-seeded.

flavescens. Leaves ovate-hearted, obtuse, unequally toothed: peduncles in pairs, 1 or 2-flowered, shorter than the petiole: capsules acute.

Brasil. *Cavan. diff. t. 13. f. 3. 2) f. 2.*

Stem prostrate or erect: *capsules* 5, not awned.

radicans. Leaves roundish-hearted, acute, ciliate-toothed: peduncles solitary, longer than the petiole: capsules not awned.

East Indies. *Rheed. Mal. 10. t. 69. Capsules* 5, 1-seeded.

arguta. Leaves hearted, ferrate, tapering to the top: stem wand-like: peduncles axillary, filiform, 1-flowered.

Jamaica. *Swarthz fl. ind. occid. 2. p. 1205.*

Capsules 5, 2-awned at top, glabrous, 1-seeded.

multicaulis. Leaves roundish-hearted, acute, toothed: peduncles solitary, twice as long as the petiole: capsules not awned.

Malabar. *Cavan. diff. t. 1. f. 6. Capsules* 5.

pilosa. Leaves ovate-hearted, obtuse, toothed: peduncles solitary, longer than the petiole: capsules 2-beaked, shorter than the calyx.

St. Domingo. *Cavan. diff. t. 1. f. 8. Capsules* 5.

rotundifolia. Leaves roundish-ovate, hearted, obtuse, toothed: peduncles solitary, much longer than the petiole: capsules with 2 awns longer than the calyx.

Bourbon. *Cavan. diff. t. 3. f. 6. t. 194. f. 2.*

Capsules 9, with 2 hairy awns.

supina. Leaves roundish-hearted, rather obtuse, crenate: peduncles solitary, longer than the petiole: capsules 2-awned: stem procumbent.

Hispaniola. *Cavan. diff. t. 196. f. 2. L'Herit. stirp. 1. t. 52.*

Stems filiform: *leaves* villous: *capsules* 5, 1-seeded.

truncata. Leaves roundish-hearted, truncate and obtuse at top, toothed: peduncles solitary, longer than the petiole: capsules not awned.

St. Domingo. *Cavan. diff. t. 1. f. 6. f. 7. Capsules* 9.

herbacea. Leaves oblong, hearted, acute, toothed: peduncles solitary, a little shorter than the petiole: capsules 2-awned.

East Indies. *Cavan. diff. t. 13. f. 1. Capsules* 9.

emarginata. Leaves ovate-lanceolate, hearted, toothed, truncate and retuse at top: peduncles half as long as the petiole: capsules 2-beaked.

Hispaniola. *L'Herit. stirp.* 1. t. 51. Capsules 5.

alba. Leaves oblong-hearted, rounded and obtuse, toothed: peduncles as long as the petiole: capsules 2-horned.

East Indies. *Dill. elth.* 1. 171. f. 210. *Pluk. alm.* 1. 9. f. 3.

Flowers white, with the tips of the petals and stigmata purple.

cordifolia. Leaves ovate, hearted, toothed, somewhat angular, rather obtuse: peduncles solitary, a little shorter than the petiole: capsules 2-beaked.

India. *Cavan. diss.* 1. t. 3. f. 2. Capsules 7--10.

hederifolia. Leaves roundish-hearted, obtuse, repand: peduncles longer than the petiole: capsules 2-awned: stem prostrate, creeping.

St. Domingo. *Cavan. diss.* 1. t. 9. f. 3. Capsules 5.

E Leaves hearted, toothed: peduncles many-flowered or racemed.

verticillata. Leaves ovate, hearted, pointed, toothed: flowers nearly sessile, aggregate, whorled: capsules hardly awned.

Brasil. *Cavan. diss.* 1. t. 1. f. 12. Capsules 5.

viridis. Leaves ovate-hearted, pointed, toothed: peduncles axillary, many-flowered, aggregate: capsules not awned.

Jamaica. *Cavan. diss.* 1. t. 2. f. 7. Capsules 5.

umbellata. Leaves roundish-hearted, toothed, somewhat angular, acute: peduncles axillary, about 4-flowered, umbelled: capsules 2-awned.

Jamaica. *Cavan. diss.* 1. 6. f. 3. t. 129. f. 2. *Jacq. hort.* 1. 56.

Capsules 6--11, 2-awned, 3 seeded.

pyramidata. Leaves roundish-hearted, pointed, serrate: peduncles corymbed, somewhat paniced: capsules 2-awned.

St. Domingo. *Cavan. diss.* 1. t. 1. f. 10. t. 194. f. 1. Capsules 5.

paniculata. Leaves ovate-hearted, toothed: racemes paniced: capsules 2-beaked.

2. Peduncles 1-flowered, solitary. *Cav. diss.* 1. s. 1. f. 7.

Jamaica; Peru. *Cavan. diss.* 1. 12. f. 5. Capsules 5.

dumosa. Leaves hearted, ovate, pointed, serrate, glabrous both sides: flowers paniced.

Jamaica. *Spartz Fl. ind. occ.* 2. p. 1209. Capsules 5.

ramosa. Leaves ovate-hearted, unequally toothed: racemes axillary: capsules 2-awned.

Senegal. *Cavan. diss.* 1. t. 6. f. 1. Capsules 6.

- spicata.* Leaves ovate, hearted, acute, toothed: raceme terminal, naked: capsules not awned, in heads, larger than the calyx.
 Brasil. *Cavan. diss.* 1. t. 8. f. 1.
Capsules numerous, 1-seeded, contracted into a head.
- terminalis.* Leaves ovate-lanceolate, hearted, toothed: raceme terminal, elongated, bracted: capsules not awned, in heads, larger than the calyx.
 Brasil. *Cavan. diss.* 1. 6. f. 6. t. 195. f. 2.
Raceme terminal: *capsules* 9, villous, 1-seeded.
 F. *Leaves* hearted, *tricuspidate*, or *angular at the base*.
- vesicaria.* Leaves ovate - hearted, toothed, somewhat tricuspidate: peduncles solitary, axillary, longer than the petiole: capsules not awned, truncate, rather acute.
 Mexico. *Cavan. diss.* 2. t. 14. f. 3. *Capsules* 10, 5-seeded.
- crassifolia.* Leaves ovate - hearted, toothed, somewhat tricuspidate: penuncles axillary, solitary, as long as the petioles: capsules 2-awned.
 Hispaniola. *Cavan. diss.* 1. t. 6. f. 5. *L'Herit. stirp.* 1. t. 60.
Capsules 9 or 10, 3-seeded, hardly larger than the calyx.
- biflora.* Leaves ovate - hearted, pointed, toothed, tricuspidate: peduncles axillary, in pairs, as long as the petioles.
 — *Cavan. diss.* 1. t. 9. f. 1. *Capsules* numerous.
- obtus.* Leaves ovate - hearted, obtuse, toothed, tricuspidate: peduncles umbelled, about 4-flowered, longer than the petiole: capsules acute.
 — *Cavan. diss.* t. 9. f. 2. *Capsules* 8, acute, 3-seeded.
- gigantea.* Leaves roundish - hearted, crenate, with 3 tricuspidate points: flowers panicled; corols reflected.
 Caraccas. *Jacq. hort. schænb.* 2. p. 8. t. 141.
Capsules 10—12, truncate, pointed, villous.
- irvensis.* Leaves roundish - hearted, toothed, tricuspidate: peduncles axillary, solitary, longer than the petiole: capsules 2-beaked: stem reclined.
 Java. *Cavan. diss.* 1. 1. f. 5. *Capsules* 5.
- hastata.* Lower-leaves hearted, with 5 angular points, slightly toothed, obtuse; upper-ones halbert-shaped, pointed, slightly toothed at the base: peduncles axillary, solitary, as long as the leaves.
 Mexico. *Cavan. diss.* t. 11. f. 2. *Capsules* numerous, pointed.
- cristata.* All the leaves crenate; lower-ones roundish - hearted, obtuse, somewhat 5-angled; upper-ones rounded, halbert-shaped, pointed: peduncles axillary, solitary, longer than the leaves.
 Mexico. *Curt. mag.* t. 330. *Cavan. diss.* 1. t. 10. f. 3.

Dilleniana. Lower-leaves triangularly halbert-shaped, crenate; upper-ones ovate-lanceolate, nearly entire: peduncles axillary, solitary, as long as the leaves.

Mexico. *Cavan. diss. t. 11. f. 1. Dill. elth. 3. t. 2. f. 2.*

Upper leaves generally entire: capsules numerous.

G. Leaves lobed, palmate, or compound.

triloba. Leaves hearted, toothed, 3-lobed; the middle-lobe acute and longer: peduncles axillary, solitary: capsules not awned.

The Cape. *Cavan. diss. t. 1. f. 11. t. 131. f. 1.*

Lowest-leaves undivided; upper-ones rarely 5-lobed.

ternata. Leaves ternate, with lanceolate remotely serrate leaflets.

The Cape. *Linn. suppl. 307.*

pterosperma Leaves 3-parted, with linear repand-sinuate divisions: flowers somewhat racemed: capsules winged.

Peru. *Cavan. diss. t. 4. f. 2. L'Herit. stirp. 1. t. 57.*

Capsules 25, 1-seeded, winged: corol white.

ricinoides. Leaves somewhat peltate, 5-lobed; the lobes ovate, acute, toothed, undivided: peduncles 1 or 2-flowered: capsules 2-awned.

Peru. *Cavan. diss. t. 3. f. 5. L'Herit. stirp. 1. t. 55.*

Iatrophoides. Leaves somewhat peltate, in 7 palmate lobes; the lobes lanceolate, pointed, pinnatifid, toothed: peduncles many-flowered: capsules slightly 2-awned.

Peru. *Cavan. diss. t. 131. f. 3. L'Herit. stirp. 1. t. 56.*

Leaves 9 or 7-lobed: corol violet.

napæa. Leaves glabrous, about 5-lobed; the lobes oblong, pointed, toothed: peduncles many-flowered: capsules awnless, pointed.

Virginia. *Cavan. diss. tab. 132. f. 1.*

Peduncles 3 or 4-flowered.

dioica. Leaves rough, in 7 or 9 palmate lobes; the lobes lanceolate, cut-toothed: flowers dioicous, corymbed, bracted.

Virginia. *Cavan. diss. t. 132. f. 2. Capsules 8—10.*

Phyllanthus Stemless: leaves ternate; leaflets sessile, 3-parted, wedge-form, with very entire undivided obtuse segments: flower solitary, invested on the winged petiole.

Peru. *Cavan. diss. 5. p. 276. t. 127. f. 4.*

Leaves downy, white above, reddish underneath: petals winged by the decurrent stipules: flower blue.

1321. PALAVIA. *Calyx* single, 5 - cleft: *style* many-cleft: *capsules* numerous, collected into a head without order.

malvaefolia Glabrous: peduncle longer than the petiole: stem prostrate.

Lima. *Cavan. diss.* t. 11. f. 4. *L'Herit. stirp.* 1. t. 50.

Stem branched, decumbent: leaves hearted, obtuse, unequally crenate: peduncles 1-flowered: flowers purple.

moschata. Downy: peduncle longer than the leaf: stem erect.

Lima. *Cavan. diss.* 1. p. 41. t. 11. f. 5.

Leaves ovate hearted, repand, crenate, obtuse: peduncles solitary, axillary, 1-flowered: flowers purplish-yellow.

1322. MALACHRA. *Common calyx* 3-leaved, many-flowered; proper calyx campanulate, 5-cleft: *capsules* 5, 1-seeded.

capitata. Heads of flowers peduncled, 3-leaved, 7-flowered: leaves somewhat heart-shaped, obsoletely lobed: stem rough.

Caribbees. *Cavan. diss.* t. 33 f. 1, 2. *Stoane Jam.* 1. t. 137. f. 1.

Plant rough: peduncles in pairs, axillary: flowers yellow.

fasciata. Heads peduncled, 3-leaved, about 5-flowered: leaves roundish, obsoletely lobed: stem villous.

Caraccas. *Jacq. ic. rar.* 3. t. 548. *collect.* 2. p. 352.

alceaefolia. Heads peduncled, 5-leaved, about 10-flowered: leaves heart-shaped, 5-lobed.

Caraccas. *Jacq. ic. rar.* 3 t. 549. *collect.* 2. p. 350.

Lobes of the leaves acute, toothed: flowers yellow.

radiata. Heads peduncled, 5-leaved, many-flowered: leaflets of the involucre pointed: leaves palmate.

St. Domingo. *Cavan. diss.* t. 33 f. 3. *Plum spec.* 2. t. 19.

Leaves 5-lobed; the lobes about 3 cleft, oblong, serrate.

bracteata. Heads peduncled, 5-leaved, many-flowered: leaflets of the involucre ovate, acute: flowers bracted: leaves palmate.

America. *Cavan. diss.* 2. p. 98. t. 34. f. 2.

Leaves 7-lobed, serrate; the middle-lobe trifid.

flumosa. Heads peduncled, many-leaved, many-flowered: leaves undivided, elliptic, toothed.

Brasil. *Cavan. diss.* 1. t. 12. f. 4. *Sida*.

Leaves truncate: outer-leaflets of the involucre elliptic and toothed, inner-ones linear and ciliate.

1323. **ALTHÆA.** *Calyx* double; the outermost 6—9-cleft: *capsules* numerous, 1-seeded, disposed in a flat ring. *Marsh-mallow.*

* *officinalis.* Leaves downy, oblong-ovate, obsoletely 3 or 5-lobed and ferrate.

Sea shores. *Eng. bot. t. 147. Woodw. t. 53. Blackw. t. 90.*

narbonensis. Leaves downy; the lower-ones 5 or 7-lobed, upper-ones 3-lobed.

France. *Cavan. diss. t. 29. f. 2. Jacq. ic. rar. 1. t. 138.*

cannabina. Leaves downy-rough; the lower-ones palmate, in finger-like divisions, upper-ones ternate, with the middle leaflet very long.

Austria. *Cavan. diss. t. 30. f. 1. Jacq. Austr. t. 101.*

hirtula. Leaves hearted, obtuse, 5-lobed, glabrous above: stem rough with hairs.

South of Europe. *Cavan. diss. t. 29. f. 1. Jacq. Austr. t. 170.*

Stems diffuse: *outer-calyx* 8-leaved: *corol* pale flesh-colour.

Ludwigii. Leaves lobed, naked both sides: peduncles clustered, 1-flowered.

Sicily. *Cavan. diss. 2. t. 30. f. 3. Peduncles 2—5 together.*

acaulis. Nearly stemless: leaves roundish-hearted, somewhat 5-angled, crenate: petals emarginate.

The East. *Cavan. diss. 2. t. 27. f. 3. Stem thick, short.*

rosea. Leaves in 5 or 7 angular lobes. *Holly-hock.*

Alcea rosea. *Hort. cliff. 348. Ludw. ed. t. 42.*

The East. *Cavan. diss. 2. t. 28. f. 1. 2) t. 29. f. 3.*

pallida. Leaves roundish-ovate, hardly lobed.

Hungary. *Waldst. et Kitaib. pl. Hung. Willd. 3. p. 773.*

Outer *calyx* as long as the inner: *petals* 2-lobed.

ficifolia. Leaves in 7 palmate lobes, obtuse.

Alcea ficifolia. *Hort. cliff. 348. Knorr del. 2. t. A.*

Siberia. *Cavan. diss. t. 28. f. 2. Blackw. t. 54. Malva.*

1324. **MALVA.** *Calyx* double, the outermost 2 or 3-leaved: *capsules* numerous, 1-seeded, disposed in a flat ring. *Mallow.*

A. *Leaves undivided.*

spicata. Leaves ovate, somewhat hearted, doubly crenate, rough above, downy underneath: spike oblong, downy.

Jamaica. *Cavan. diss. 2. t. 20. f. 4. 2) t. 20. f. 2.*

polystachya. Leaves roundish-ovate, pointed, toothed, rough: flowers spiked, axillary and terminal.

Peru. *Cavan. diss. 5. t. 138. f. 3. Capsules glabrous.*

- tomentosa.* Leaves hearted, crenate, downy: flowers lateral, crowded: stem shrubby.
India. *Pluk. amalth.* 11. t. 356. f. 1?
- scoparia.* Leaves ovate, with crenate serratures: flowers axillary, crowded: stem shrubby.
Peru. *Cavan. t.* 21. f. 4. *Jacq. ic. t.* 139 *L'Herit. stirp. t.* 27.
- gangetica.* Leaves hearted, obtuse, rough: flowers sessile, clustered: capsules 10, simple, crenulate.
India. *Pluk. phyt.* 74 f. 6. Seeds tubercled.
- ceromand-
liana.* Leaves oblong or heart-shaped: peduncles axillary: flowers clustered: capsules tricuspidate.
Jamaica. *Fruit* truncate, hairy at top.
- americana.* Leaves ovate, acute, toothed, rough: lateral flowers solitary; the terminal ones in spiked heads.
America. *Cavan. diss.* 2. t. 22. f. 2. Flowers yellow.
- calycina.* Leaves ovate, hearted, obtuse, crenate: peduncles axillary, as long as the leaves.
The Cape. *Cavan. diss.* 2. t. 22. f. 4. Leaves downy.
- cuneifolia.* Leaves obovate-wedge-form, truncate and repand at top: peduncles axillary, longer than the petiole: outer-calyx 2-leaved.
— *Cavan. diss.* 2. p. 64 t. 20. f. 1.
- angustifolia* Leaves lanceolate: flowers axillary, in pairs: peduncles shorter than the petiole: outer calyx setaceous, deciduous.
Mexico. *Cavan. diss.* 2. t. 20. f. 1. *ic.* 1. t. 68.
Leaves hoary downy: flowers large, purplish.
- subbistata.* Leaves ovate-lanceolate, toothed, obsoletely 3-lobed: peduncles axillary, solitary, as long as the petiole.
Brasil; Peru. *Cavan. diss.* 2. t. 21. f. 3.
- scabra.* Leaves ovate-lanceolate, doubly toothed, obsoletely 3-lobed: peduncles axillary, 1 or 2-flowered: stem rough.
Peru. *Cavan. diss.* 5. tab. 138. f. 1.

B. *Leaves angular.*

- peruviana.* Stem erect, herbaceous: leaves palmate: spikes axillary, leaning one way: seeds denticulate.
Peru. *Cavan. diss.* 2. t. 19. f. 1. *Jacq. hort. t.* 156.
Leaves 7-lobed, plaited, glabrous: petioles as long as the leaves: corols small, purple: seeds rough with teeth above.
- limensis.* Stem erect, herbaceous: leaves lobed: spikes axillary, leaning one way: seeds smooth.
Lima. *Cavan. diss.* t. 19. f. 2. *Jacq. hort. t.* 141.

- capitata.* Leaves with 5 pinnatifid sinuate toothed lobes, the middle one elongated: flowers peduncled, in corymbed heads: capsules 2-beaked.
Peru. *Cavan. diss. t. 137. f. 1.* Peduncles axillary, long.
- bryonifolia.* Leaves 5-lobed, obtuse, very rough: stem downy, shrubby: peduncles many-flowered: corols reflected.
The Cape. *Wendl. hort. berenbus. 1. t. 4. M. reflexa.*
- umbellata.* Leaves somewhat pettate, 5-lobed, obtuse: flowers umbelled: leaves of the outer calyx obovate, deciduous, Mexico. *Cavan. ic. 1. t. 95.* Peduncles axillary, solitary.
- abutiloides.* Leaves with 5 angular lobes, downy: peduncles axillary, about 4-flowered, bifid: capsules many-seeded.
Bahamas. *Cavan. diss. t. 16. f. 2. Jacq. hort. schænb. 3. t. 293.* Capsules globular, striate, with many-seeded cells.
- abuleasis.* Lower-leaves 5-angled; upper-ones 3-lobed, wedge-shaped at the base: peduncles 1-flowered, shorter than the petiole.
Spain. *Cavan. diss. 2. p. 76. t. 18. f. 4.* Stem rough, downy.
- lobata.* Leaves 5-lobed, repand: flowers somewhat racemed.
—— *Cavan. diss. 2. t. 18. f. 4.* Plant downy.
- fastigiata.* Leaves 5-lobed, unequally toothed: flowers terminal, somewhat umbelled.
Spain. *Cavan. diss. 2. t. 23. f. 2.* Flowers fastigate.
- bonariensis.* Leaves 3-lobed, repand, downy: flowers axillary, clustered.
Bonaria. *Cavan. diss. t. 22. f. 1.* Leaves unequally toothed.
- stricta.* Leaves ovate, undivided or 3-lobed, toothed, hairy: peduncles axillary, 1-flowered.
The Cape. *Jacq. hort. 3. t. 294.* Petals larger than the calyx.
- laetea,* Shrubby: leaves angular, acute, heart-shaped, villous: petals inversely heart-shaped, shorter than the calyx: peduncles paniced.
Mexico. *Cavan. ic. 1. t. 20. M. vitifolia.*
- operculata.* Leaves with 5 angular lobes, the middle one elongated: racemes axillary, leaning one way: capsules covered with a lid.
Peru. *Cavan. diss. t. 35. f. 1.* Flowers nearly sessile.
- fragrans.* Leaves heart-shaped, 5-lobed, toothed: peduncles solitary, as long as the petiole.
The Cape. *Cavan. diss. 2. t. 23. f. 3. Jacq. hort. 3. t. 35.* Plant aromatic: leaves soft, a little viscid.
- capensis.* Leaves ovate, 3 or 5-lobed, toothed: peduncles longer than the petiole.
The Cape. *Cavan. diss. t. 24. f. 3.* Leaves viscid.

- balamica.* Leaves ovate, slightly 3-lobed, acute, unequally toothed: peduncles solitary, longer than the petiole.
The Cape. *Jacq. ic. rar. 1. t. 14.* Leaves viscid.
- grossulari-folia.* Leaves oblong, somewhat 3-lobed, unequally toothed: peduncles solitary, as long as the petiole.
The Cape. *Cavan. diss. t. 24. f. 2. Dill. elth. t. 169. f. 207.*
- virgata.* Leaves deeply 3-lobed, toothed, wedge-shaped at the base: peduncles in pairs, longer than the petiole
The Cape. *Cavan. diss. t. 18. f. 2. Dill. elth. t. 169. f. 206.*
Stem shrubby, wandlike: leaves crenate, glabrous.
- reflexa.* Leaves unequally cut into lobes, wedge-shaped at the base: peduncles solitary, longer than the petiole: corols reflected.
The Cape. *Andrews reposit. t. 135.* Corol white.
- miniata.* Leaves ovate, 3-lobed, toothed, downy: peduncles axillary, racemed.
— *Cavan. ic. 3. t. 278.* Corol scarlet.
- retusa.* Leaves oblong, very obtusely 3-lobed, toothed, downy: peduncles axillary, longer than the petiole.
The Cape. *Cavan. diss. 2. t. 21. f. 1.* Capsules glabrous.
- tridactylites* Leaves wedge-form, 3-cleft, very entire: peduncles axillary, as long as the leaves.
The Cape. *Cavan. diss. 2. t. 21. f. 2.* Leaves very small.
- albæoides.* Leaves palmate, with lanceolate toothed lobes: peduncles longer than the leaves: stem prostrate: petals wedge-form, toothed at top.
Spain. *Cavan. ic. 2. t. 135.* Stem hairy.
- caroliniana.* Leaves 5-lobed or palmate, cut-toothed: peduncles longer than the petiole: petals entire: fruit villous: stem prostrate.
Carolina. *Cavan. diss. t. 15. f. 1. Dill. elth. t. 4. f. 4.*
Fruit tubercled above, with 2 awns from each cell.
- prostrata.* Leaves palmate, cut-toothed: peduncles longer than the petiole: petals entire: fruit glabrous: stem prostrate.
Brasil. *Cavan. diss. t. 16. f. 3.* Capsules 2-awned, 2-seeded.
- cretica.* Leaves hearted, roundish, 5-angled, crenate, villous: peduncles axillary, longer than the petiole: stem erect.
Crete. *Cavan. diss. t. 138. f. 2.* Stem hairy.
- parviflora.* Stem spreading: leaves angular: flowers axillary, sessile, clustered: calyxes glabrous, spreading.
Barbary. *Cavan. diss. t. 26. f. 1. Jacq. hort. t. 39.*
- nigrens.* Stem prostrate: leaves with acute lobes: peduncles erect: calyxes hairy.
Italy. *Cavan. diss. t. 25. f. 1.* Flowers clustered, peduncled.

- **rotundifolia*. Stem prostrate: leaves hearted, rounded, with 5 or 7 obtuse lobes: peduncles when in fruit declined: peduncles, petioles and calyx very hairy: petals longer than the calyx.
Wastes. *Eng. bot. t. 1092. Curt. Lond. fasc. 3. t. 43.*
- **pusilla*. Stem prostrate: leaves hearted, rounded, with 5 or 7 obtuse lobes: peduncles when in fruit declined: peduncles, petioles and calyx nearly glabrous: petals as long as the calyx.
Wastes. *Eng. bot. tab. 241.*
- acaulis*. Stemless: leaves angular, toothed; the teeth with 2 bristles: peduncles radical, many-flowered.
Peru. *Cavan. diss. 2. p. 82. tab. 35. f. 2.*
- sherardiana*. Stems prostrate: leaves orbicular, plaited, downy, crenate: peduncles solitary, 1-flowered, curved.
Bithynia. *Cavan. t. 26. f. 4. Till. pis. t. 35. f. 2.*
Peduncles shorter than the leaves: petals red.
- **sylvestris*. Stem erect, herbaceous: leaves with 7 sharpish lobes: peduncles and petioles hairy.
Hedges. *Eng. bot. t. 671. Curt. Lond. fasc. 2. t. 51. Woodv. t. 54.*
- mauritiana*. Stem erect, herbaceous: leaves with 5 obtuse lobes: peduncles and petioles nearly glabrous.
South of Europe. *Cavan. diss. t. 25. f. 2. 2) t. 25. f. 3.*
Outer-calyx ovate: corol blueish.
- hispanica*. Stem erect: leaves semiobicular, crenate: outer calyx 2-leaved.
Spain. *Cavan. diss. t. 19. f. 3. 2) t. 18. f. 3.*
Stems diffuse, hairy: leaves hardly lobed: peduncles solitary, 1-flowered: corol flesh-colour.
- verticillata*. Stem erect: leaves angular: flowers axillary, sessile, clustered: calyxes rough.
China. *Cavan. diss. t. 25. f. 3. Jacq. hort. t. 40.*
- crispa*. Stem erect: leaves angular, curled: flowers axillary, clustered.
Germany. *Cavan. diss. t. 23. f. 1.*
- Papaver*. Leaves with 5 and 3 linear entire ciliate leaflets: outer-calyx 2-leaved.
Portugal. *Cavan. diss. t. 15. f. 3. Stem hairy.*
- stipulacea*. Lower-leaves 3-lobed, very entire; upper-ones many-cleft, with the divisions 3-cleft and toothed at top: stipules lanceolate, longer than the petiole.
Spain. *Cavan. diss. t. 15. f. 2. Also pl. Drag. t. 5. f. 1.*
- Alcea*. Stem erect: lower-leaves angular, upper-ones 5-parted and roughish: leaves of the outer calyx oblong, obtuse.

Germany. *Cav. diss. t. 17. f. 2. Blackw. t. 309.*

Stem rough with fascicled expanded hairs: *calyx* downy.

moschata. *Stem* erect: root-leaves kidney-form, cut; stem-leaves 5-parted, with pinnatifid toothed divisions: leaves of the outer calyx linear.

Gravelly fields. *Eng. bot. t. 754. Curt. Lond. fasc. 4. t. 50.*

elegans. Leaves a little hoary, 3-parted, the segments toothed at top, the middle-one 3-cleft: peduncles axillary: stem shrubby.

The Cape. *Cavan. diss. t. 16. f. 1. Jacq. collect. t. 6. f. 1.*

Leaves of the outer-calyx lanceolate: corol white.

Tournefortiana. Root-leaves 5-parted, 3-lobed, linear: peduncles longer than the stem-leaf: stem decumbent.

Spain. *Cavan. diss. t. 17. f. 3. Pluk. alm. t. 44. f. 4.*

Leaves ciliate: corol 4 times as large as the calyx.

egyptia. *Stem* erect: leaves 3-parted, the divisions 3-cleft and toothed at top: corol less than the calyx: outer-calyx 2-leaved.

Egypt. *Cavan. diss. t. 17. f. 1. Jacq. hort. t. 65.*

Leaves ciliate, glabrous above: stem erect.

tripida. *Stem* erect: leaves 3-parted, with 3-cleft obtuse divisions: corol 3 times as large as the calyx: outer-calyx 2-leaved.

Spain. *Cavan. diss. t. 137. f. 2. Calyx* hairy.

1325. LAVATERA. *Calyx* double, the outermost 3-cleft: capsules numerous, 1-seeded, disposed in a ring.

A. *Stem* shrubby.

arborea. *Stem* arboreous: leaves 7-angled, downy, plaited: peduncles axillary, crowded, 1-flowered.

Sea rocks. *Curt. Lond. fasc. 4. t. 50. Cavan. diss. t. 139. f. 2.*

micans. *Stem* arboreous: leaves 7-angled, acute, crenate, plaited, downy: racemes terminal.

Spain; Portugal. *Morif. hist. 1. sect. 5. t. 17. f. 9. Malva.*

bispica. *Stem* shrubby: upper-leaves 3-lobed in a halbert-shaped manner, toothed, downy: flowers axillary, solitary, nearly sessile: branches and petioles with fascicled hairs.

Algeira. *Desfont. atl. 2. p. 118. t. 171.*

2. Leaves 5-lobed, crenate. *Cavan. diss. 5. t. 159. f. 1.*

Olbia. *Stem* shrubby: leaves 5-lobed in a halbert-shaped manner: flowers solitary.

Olbia island. *Cavan. diss. t. 32. f. 2. Jacq. hort. t. 73.*

triloba. Stem shrubby: leaves somewhat hearted, obsoletely 3-lobed, rounded, crenate: stipules heart-shaped: peduncles aggregate, 1-flowered.

Spain; France. *Cavan. diss. t. 31. f. 1. Jacq. hort. t. 74.*

Plant downy, viscid: flowers pale purple.

lunitanica. Stem shrubby: leaves 7-angled, downy, plaited: racemes terminal.

Portugal. *Leaves a little hoary.*

maritima. Leaves roundish, obtusely angled, crenate, downy: peduncles axillary, solitary.

Spain; France. *Cavan. t. 32. f. 3. Gouan. illustr. t. 21. f. 2.*

B. Stem herbaceous.

thuringiaca Stem herbaceous, downy: leaves a little downy; the lower ones angular, upper-ones 3-lobed with the middle lobe longer and obtuse: peduncles axillary, solitary.

Europe. *Curt. mag. t. 517. Cavan. t. 31. f. 5. Jacq. Auß. t. 311.*

cretica. Stem herbaceous, bristly-rough: leaves 5-lobed, acute: peduncles axillary, clustered.

Crete. *Cavan. diss. t. 32. f. 1. Jacq. hort. t. 41.*

flava. Stem herbaceous, downy: leaves somewhat downy, roundish, obsoletely 3-lobed: peduncles axillary, clustered.

Africa. *Desfont. atl. 2. t. 172. Corol large, yellow.*

punctata. Stem herbaceous, rough with dots: leaves somewhat downy: the lower-ones orbicular-hearted: upper-ones 3-lobed: peduncles solitary, longer than the leaves.

Nice. *All. auz. p. 26. Peduncles appressed to the stem.*

trimestris. Stem herbaceous, bristly-rough above: lower-leaves roundish and hearted, upper-ones angular, uppermost 3-lobed with the middle-lobe lanceolate: peduncles solitary, shorter than the leaves.

Syria. *Curt. mag. t. 109. Cavan. t. 31. f. 1. Jacq. hort. t. 72.*

Leaves nearly glabrous: flowers pale flesh-colour.

1326. RUIZIA. *Calyx* double, the outermost 3-leaved: *styles* 10: *capsules* 10, 1-celled, 2-seeded, closely cohering.

cordata. Leaves hearted, lanceolate, repand.

Bourbon. *Cavan. diss. 3. p. 117. t. 36. f. 2.*

In all the species the leaves are downy underneath, and the flowers in axillary peduncled bifid corymbs.

lobata. Leaves hearted, 5-lobed, crenate.

Bourbon. *Cavan. diss. 3. p. 118. t. 36. f. 1.*

variabilis. Leaves of the flowering-branches palmate, of the sterile branches in finger-like divisions.

Bourbon. *Cavan. t. 37. f. 1, 2. Jacq. hort. Schænb. 3. t. 295.*

1327. MALOPE. *Calyx* double, the outermost 3-leaved: *capsules* 1-seeded, clustered without order.

malacoides. Leaves oblong, obtuse, undivided, crenate, glabrous above: peduncles axillary, solitary.

Tuscany. *Cavan. diss. t. 27. f. 1. Moris. sect. 5. t. 17. f. 11.*

multiflora. Leaves roundish, undivided, crenate, villous: peduncles axillary, 3 or 4 together.

Tuscany. *Cavan. diss. 2. p. 85. Willd. 3. p. 799.*

trifida. Leaves oblong, half 3-lobed, pointed, toothed, glabrous: peduncles axillary, solitary.

Barbary. *Cavan. diss. 2. t. 27. f. 2.* Leaves thick.

1328. KITAIBELIA. *Calyx* double; the outermost 7 or 9-cleft: *capsules* 1-seeded, clustered in a 5-lobed head.

vitifolia. KITAIBELIA.

Hungary. *Waldst. et Kitaib. pl. rar. Hung. 1. p. 29. t. 31.*

Plant viscid-hairy: leaves 5-lobed, unequally toothed: flowers axillary, 2 or 3 together, white.

1329. URENA. *Calyx* double; the outermost 5-cleft: *capsule* 5-celled, 5-partible; the cells closed and 1-seeded.

lobata. Leaves roundish-hearted, angular, with 3 glands underneath.

China. *Cavan. diss. t. 185. f. 1. Dill. elth. t. 319. f. 412.*

reticulata. Leaves with a single gland underneath, lower ones 3-lobed, upper ones guitar-shaped.

South America. *Cavan. diss. 6. p. 335. t. 183. f. 2.*

Leaves whitish-downy underneath; the uppermost lanced.

tricuspis. Leaves with a single gland underneath, 3-lobed, pointed: stem rough-haired.

Bourbon. *Cavan. diss. 6. t. 183. f. 1.* Leaves all 3-lobed.

americana. Leaves 3-cleft, entire at the base.

Surinam. *Sloan. hist. 1. p. 37. t. 11. f. 2.* Malva.

Stem shrubby: leaves serrate, with a pore under the down at the base of the middle-nerve underneath.

sinquata. Leaves with 3 glands underneath, sinuate in 5 lobes; the lobes angular, denticulate, obtuse.

India. *Cavan. diss. t. 185. f. 2. Rheed. Mal. 10. t. 2.*

multifida. Leaves with a single gland underneath, hairy, 5-lobed; the lobes oblong, pointed, cut-toothed.

Mauritius. *Cavan. diss. t. 184. f. 2.* Plant hairy.

procumbens. Leaves oblong, sinuate, ferrate: stem procumbent.
China. Stem creeping: leaves undivided, ferrate.

viminea. Leaves with a single gland underneath, somewhat rhombic, toothed.

Brasil. *Cavan. diss. 6. t. 184. f. 1.*

Uppermost-leaves lanceolate: outer-calyx larger.

1330. GOSSYPIUM. Calyx double; the outermost 3-cleft: capsule 3 or 4-celled: seeds wrapped in cotton. Cotton.

herbaceum. Leaves 5-lobed, mucronate, with a single gland underneath: stem herbaceous, smooth.

East Indies. *Cavan. diss. t. 164. f. 2. Blackw. t. 354.*

Herb pubescent: stem spotted with black at top: leaves downy: peduncles branched, shorter than the petioles: outer-calyx 3-parted, with heart-shaped cut segments, dotted with black: corol 1-petalled, with a short tube, 5-parted; the segments pale yellow with 5 red spots at bottom: capsule 3-valved, 3-celled.

The wool of the seeds is the Cotton used in making cloth.

indicum. Leaves 3 or 5-lobed, obtuse, without glands underneath: stem herbaceous, rough-haired.

East Indies. *Cav. diss. t. 169. Rumph. amb. 4. t. 12.*

micranthum. Leaves 5-lobed, obtuse, with a single gland underneath: outer-calyx many-cleft and longer than the flower: stem glabrous, dotted.

Persia. *Cavan. diss. t. 193.* Leaves glabrous.

arboreum. Leaves in 5 palmate lobes; the lobes lanceolate, obtuse, mucronate: stem shrubby.

India. *Cavan. diss. t. 193. Rheed. Mal. 1. t. 31.*

vitifolium. Lower-leaves in 5 palmate lobes; upper-ones 3-lobed, all with a single gland underneath; the lobes pointed: stem dotted.

East Indies. *Cavan. diss. t. 166. Merian. Surin. t. 10.*

hirsutum. Upper-leaves undivided and heart-shaped, lower-ones 3-lobed: branchlets and petioles hairy: seeds green, adhering.

America. *Cavan. diss. t. 167. Hort. Rom. 1. t. 55.*

religiosum. Upper-leaves 3-lobed, lower-ones 5-lobed: branchlets and petioles dotted with black: outer-calyx about 3-leaved: seeds black, invested with pale saffron cotton, adhering.

East Indies. *Cavan. diss. t. 164. f. 1.*

Leaves hearted. with a single gland underneath.

latifolium. Leaves acute; the lowest undivided, the rest 3-lobed, with a single gland underneath,

— *Murr. comm. gatt. 1776. p. 32. t. 1.*

Flowers solitary, white without spots at the base.

barbadense. Upper-leaves 3-lobed, lower-ones 5-lobed: stem smoother: seeds not cohering.

Barbadoes. *Pluk. alm. t. 188. f. 1. Glands 3.*

peruvianum Leaves 5-lobed, acute, with 3 glands underneath; the lower-ones undivided: calyx with 3 glands at the base.

Peru. *Cavan. diss. 6. p. 313. tab. 168.*

1331. HIBISCUS. Calyx double; the outermost generally many-leaved: *stigmata* 5: capsule 5-celled, many-seeded.

Moscheutos. Leaves ovate, pointed, ferrate, downy underneath, bearing the flowers on the petioles: calyxes downy.

Canada. *Cavan. diss. t. 65. f. 1. Moris. sect. 5. t. 19. f. 6.*

incanus. Leaves ovate, pointed, ferrate, downy both sides: peduncles axillary: calyxes downy, nearly equal.

Carolina. *Wendl. hort. berrenhus. fasc. 4. t. 24.*

lasiocarpus. Leaves ovate-lanceolate, acute, ferrate, downy: peduncles axillary: calyxes downy, the outer-one ciliate.

— *Cavan. diss. t. 70. f. 1. Outer-calyx 13-leaved.*

palustris. Stem herbaceous, quite simple: leaves ovate, somewhat 3-lobed, downy underneath: flowers axillary.

Virginia. *Cavan. diss. 3. t. 65. f. 2. Flowers very large.*

militaris. Leaves glabrous, 3-lobed, pointed, ferrate: stem herbaceous, quite simple.

Louisiana. *Cavan. diss. t. 198. f. 2. Scop. del. Inf. 3. t. 27.*

Plant quite glabrous: outer-calyx 12—16-leaved.

hastatus. Leaves lanceolate, 3-lobed in a halbert-shaped manner, toothed: capsules downy.

India. *Cavan. diss. 3. t. 50. f. 1. Leaves glabrous.*

ferrugineus. Leaves hearted, parabolic, obtuse, toothed, rough: peduncles axillary, longer than the petiole.

Madagascar. *Cavan. diss. t. 60. f. 1. Outer-calyx 10-leaved.*

cordifolius. Arboreous, downy: leaves hearted, ovate, ferrate: flowers terminal, peduncled: calyx many-leaved, linear, long.

America. Leaves not angled.

populneus. Leaves roundish-hearted, pointed, very entire, glabrous: stem arboreous: outer-calyx 3-leaved, caducous, inner one truncate.

East Indies. *Cavan. diss. t. 56. f. 1. Rheed. Mal. 1. t. 29.*

tiliaceus. Leaves roundish-hearted, pointed, crenate: stem arboreous: outer-calyx 10-toothed.

India. *Cavan. diss. t. 55. f. 1. Sloane Jam. 1. t. 134. f. 4.*

Young-leaves 3-lobed, with 3 pores underneath.

elatus. Leaves hearted, roundish, very entire: peduncles very short, 1-flowered: outer calyx 10-toothed.

Jamaica. *Sloane Jam. 1. t. 134. f. 2, 3. Malva.*

Tree 50—60 feet high: *leaves* hoary downy underneath with a single pore: *flowers* large, purplish-saffron.

Lampas. Leaves hearted, tricuspidate, crenate, dotted underneath: outer-calyx very short.

Philippine Isles. *Cavan. diss. 3. t. 56. f. 2.*

Inner-calyx very long: *stigma* clavate, 5-grooved.

membranaceus. Leaves ovate-lanceolate, hearted, toothed: flowers axillary, solitary: divisions of the inner calyx elliptic, foliaceous, 3-nerved.

— *Cavan. diss. 3. t. 57. f. 2. Outer-calyx* 10-leaved.

lunarifolius. Leaves roundish-ovate, pointed, sharply toothed, hairy underneath: outer-calyx as long as the inner.

East Indies. *Willd. sp. pl. 3. p. 811. n. 14.*

Stem with shining appressed hairs: *outer-calyx* 10-leaved.

Rosa sinensis. Leaves ovate, pointed, toothed, glabrous, very entire at the base: stem arboreous: outer-calyx 5—8-leaved.

East Indies. *Curt. mag. t. 158. Cavan. diss. t. 69. f. 2.*

spiralis. Leaves ovate, acute, toothed, glabrous, very entire at the base: stem shrubby: outer-calyx about 9-leaved: corol tubular-spiral.

Mexico. *Cavan. ic. t. 162. Corol* yellow and flesh-colour.

brasiliensis. Leaves heart-shaped, denticulate: outer-calyx twice as long as the inner: stem shrubby, with hairy branches.

Brazil. *Outer-calyx* 8-leaved, linear, spreading.

unilateralis. Leaves ovate, pointed, toothed: outer-calyx 9 leaved, as long as the inner: stamina placed only on one side.

St. Domingo. *Cavan. diff. t. 67. f. F. c. Plum ic. t. 16. f. 1.*

acuminatus. Leaves hearted, pointed; the lower-ones tricuspidate: outer-calyx about 9-leaved: capsule depressed, 5-sided, downy.

— *Cavan. diff. 3. t. 50. f. 2. Corol* scarlet: *seeds* naked.

- phœniceus*. Leaves ovate, pointed, ferrate; the lower-ones somewhat hearted and tricuspidate: peduncles jointed: seeds woolly.
East Indies. *Cavan. diss. t. 67. f. 2, 3. Jacq. hort. 3. t. 4.*
Shrub small, with beautifully scarlet flowers.
- ovalifolius*. Leaves oval and somewhat angular: outer calyx 5-leaved.
Arabia Felix. *Vahl. symb. 1. p. 50. Willd. 3. p. 814.*
Branches clothed with stellate hairs: seeds villous.
- clandestinus*. Leaves oblong, somewhat hearted, toothed, roughish; the lower ones obsoletely 3-lobed: peduncles as long as the leaves: outer-calyx 6-leaved: petals inclosed in the calyx.
Senegal. *Cavan. ic. 1. t. 2.* Peduncles very long, jointed.
- rigidus*. Leaves oblong, toothed, rough: peduncles longer than the leaves: outer-calyx 7-leaved: corol reflected: seeds woolly.
Ceylon. Branches long, filiform, rigid, quite simple.
- micranthus*. Leaves roundish, undivided, ferrate: corol reflected, oblique.
East Indies. *Cavan. diss. t. 66. f. 1.* Seeds woolly.
- gossypinus*. Leaves ovate, bristly, ferrate: seeds invested with wool.
The Cape. *Thunb. prodr. 118.*
- ovatus*. Leaves ovate, very entire, ciliate, 3-nerved, villous underneath: flowers axillary, solitary: peduncles shorter than the leaves.
The Cape. *Cavan. diss. 3. p. 143. t. 50. f. 3.*
- æthiopicus*. Leaves wedge-form, about 5-toothed, with stellate hairs: peduncles longer than the leaves.
The Cape. *Cavan. diss. t. 60. f. 1. Pluk. alm. t. 254. f. 2.*
- microphyllus*. Leaves oval, hairy, ferrate on the upper-part: stem shrubby.
Arabia Felix. *Vahl. symb. 1. p. 50. Willd. 3. p. 816.*
Shrub clothed with stellate hairs: outer-calyx 10-leaved.
- urens*. Downy: leaves kidney-form, crenate: calyxes woolly.
The Cape. *Cavan. diss. 3. t. 67. f. 1.* Herb stinging a little.
- calycinus*. Leaves hearted, angular, somewhat 3-lobed, repand: outer calyx 5-leaved, longer than the inner: petals enclosed in the calyx.
Bourbon. *Cavan. diss. 5. t. 140.* Corol small.
- mutabilis*. Leaves hearted, angular, 5-lobed, pointed, toothed: outer calyx 8-leaved: capsule villous: stem arboreous.
India. *Andrews repof. t. 228. Cav. diss. t. 62. f. 1.*
Outer-calyx 8-leaved: flowers large, white in the morning, pale flesh-colour in the middle of the day, rosy in the evening, and falling off at sun-set.

syriacus. Leaves wedge-ovate, 3-lobed and toothed: outer-calyx 6—8-leaved, as long as the inner-one: stem arbo-
reous. *Althæa frutex.*

Syria. *Curt. mag. t. 83. Cavan. diss. 3. t. 69. f. 1.*

rhombifolius Leaves rhombic-ovate, undivided, crenate at top, pointed: outer-calyx 7-leaved, as long as the inner: stem shrubby.

East Indies. *Cavan. diss. 3. p. 156. t. 69. f. 3.*

liliiflorus. Leaves obovate, very entire, nerved, rather obtuse or slightly 3-lobed: outer-calyx 5-leaved, very short: stem arboreous.

Bourbon. *Cavan. diss. 3. p. 154. t. 57. f. 1.*

bifurcatus. Leaves toothed; the lower-ones 3-lobed, upper-ones with halbert-like appendages: leaves of the outer-calyx 10, bifid at top: stem and peduncles prickly.

Brazil. *Cavan. t. 51. f. 1.* Uppermost leaves lanceolate.

trilobus. Leaves hearted, 3-lobed, toothed; the middle-lobe longer: outer-calyx 12-leaved: stem arboreous, prickly: peduncles unarmed.

St. Domingo. *Cavan. diss. t. 53. f. 2.* Petioles prickly.

diversifolius Leaves 5 or 3-lobed, obtuse, toothed; the upper-ones oblong-lanceolate, undivided: stem and petioles prickly: peduncles unarmed.

East Indies. *Cavan. diss. 3. t. 51. f. 2. Jacq. ic. 3. t. 551.*

Outer-calyx 9-leaved: peduncles very short.

domingensis. Leaves 5 or 3-lobed, toothed: petioles hairy, somewhat prickly: stem arboreous, prickly: outer-calyx about 12-leaved, inner-one with raised ribs.

St. Domingo. *Cavan. diss. t. 54. f. 1? Jacq. ic. rar. 3. t. 550.*

ficulneus. Leaves 5-lobed in a palmate manner, the upper-ones 3-lobed; lobes obtuse, unequally toothed, narrowed at the base: outer-calyx 5-leaved, caducous; inner-one bursting longitudinally: stem prickly.

Ceylon. *Cavan. diss. t. 52 f. 2. Dill. elsh. t. 157. f. 190.*

Sabdariffa. Leaves toothed; the lower-ones ovate, undivided; upper-ones 3-lobed, wedge shaped at the base: outer-calyx about 12-toothed: stem unarmed: flowers nearly sessile.

2. Middle-leaves 3-parted; upper-ones 5-parted.

Indies. *Cavan. diss. t. 198. f. 1. Pluk. alm. t. 6. f. 2.*

Petioles with prickles turning back underneath.

speciosus. Leaves 5-parted, palmate, glabrous; the divisions lanceolate, pointed, remotely serrate at top: outer-calyx 10-leaved: stem and peduncles smooth.

Carolina. *Curt. mag. t. 360. Wendl. hort. herren. t. 11.*

Corol large, much spread, deep crimson.

cannabinus. Leaves ferrate: the upper ones palmate, 5-parted, with a single gland underneath: stem prickly: flowers sessile.

India. *Cavan. diss. 3. t. 52. f. 1. Ehr. pi. t. 6. f. 1.*

Stem with upright prickles: petioles with straight ones.

fraternus. Outer-calyx with round rays mucronate and concave at the tips: leaves 3-lobed.

Surinam. *Merian. Surinam. tab. 37.*

Plant smooth: divisions of the leaves lanceolate, ferrate, with a gland underneath: capsule pubescent.

sororius. Outer calyx with 10 round rays dilated at the tips: leaves heart-shaped, crenate, rough.

Surinam. Stem hairy: leaves of the outer calyx dilated at top into an obtuse hooded heart-shaped leaf.

surattensis. With recurved prickles: leaves 5-lobed: outer calyx appendaged: stipules half heart-shaped: flowers peduncled.

East Indies. *Cavan. diss. t. 33. f. 1. 2) Rheed. Mal. 6. t. 44.*

Divisions of the leaves lanceolate, ferrate, bristly, a little prickly on the rib underneath: stipules kidney-form, ciliate.

radiatus. Leaves ferrate, 7 or 5-parted, palmate, with lanceolate pointed divisions: stem, petioles, peduncles and calyxes prickly: outer calyx 10-leaved, awn-ciliate.

— *Cavan. diss. 3. t. 150. t. 54. f. 2. Willd. 3. p. 824.*

Manibot. Leaves palmate in 7 finger-like divisions: stem and petioles unarmed.

Indies. *Cavan. diss. 3. t. 63. f. 2. 2) t. 63. f. 1.*

Capsule long, hairy, pyramidal, 5-fided.

digitatus. Leaves 5-lobed in a palmate manner, plaited; the lobes oblong, acute, ferrate: outer calyx 7-parted: stem and petioles prickly.

Brazil. *Cavan. diss. 3. t. 70. f. 2.*

flavescens. Leaves 5-lobed in a palmate manner, unequally toothed, hairy: stem and petioles unarmed.

Pondicherry. *Cavan. diss. 3. t. 70. f. 3.*

Stem clothed with yellow hairs: flowers terminal.

spicatus. Leaves 5-lobed, obtuse, toothed, downy: flowers sessile, terminal, spiked.

— *Cavan. diss. 3. t. 59. f. 1. Stem hairy.*

micans. Leaves heart-shaped, 5-angled, toothed, pointed: outer calyx 6-parted: stem unarmed.

Java. *Cavan. diss. t. 60. f. 2. Corol downy outwardly.*

Abelmoschus. Leaves somewhat peltate and hearted, 7-angled, pointed, ferrate: outer calyx about 8-leaved: stem bristly.

Musk Mallow.

Indies. *Cavan. diff. t. 62. Merian. Surin. t. 42.*

Seeds large, with a very strong musky odour.

columnaris. Leaves heart-shaped, 5 angled, rather obtuse, repand: outer-calyx 6-cleft: column supporting the stamina, longer than the campanulate corol.

Bourbon. *Cavan. diss. 3. p. 166. t. 59. f. 2.*

penunculat. Leaves 5 or 3-lobed, obtuse, crenate, hairy: peduncles axillary, twice as long as the leaves: corol campanulate.

The Cape. *Cavan. diff. 3. t. 66. f. 2.*

esculentus. Leaves heart-shaped, 5-lobed, rather obtuse, toothed: petioles longer than the flower: outer calyx 10 or 12-parted, deciduous; inner one bursting longitudinally.

Indies. *Cavan. diff. t. 61. f. 2. Sloane Jam. 1. t. 133. f. 3.*

longifolius. Leaves 5 or 3-parted in a palmate manner, with lanceolate cut-toothed lobes: petioles longer than the flower: outer calyx about 12-leaved, deciduous; inner one bursting longitudinally.

East Indies. *Willd. sp. pl. p. 828. n. 56.*

clypeatus. Leaves heart-shaped, angular: capsules turbinate, truncate, bristly.

Jamaica *Cavan. diff. t. 58. f. 1. Sloane Jam. 1. t. 135. f. 1.*

Plant downy: outer calyx of 10 reflected leaves.

senegalensis. Leaves heart-shaped, toothed, downy; the lower ones angular: outer calyx 10-leaved, longer than the inner.

Senegal. *Cavan. diff. 3. t. 68. f. 1. Corol* small.

tubulosus. Leaves crenate; the lower ones roundish-hearted, pointed; upper ones oblong-hearted, tricuspidate: flowers shorter than the petiole: outer calyx 8-leaved, obtuse.

East Indies. *Cavan. diff. t. 68. f. 2. Leaves* downy beneath.

obtusifolius. Leaves downy underneath, crenate, hearted; the lower ones rounded; upper ones pointed, 3-lobed, obtuse: flowers drooping.

East Indies. *Willd. sp. pl. 3. p. 829. n. 60.*

Calyxes downy, the outermost shorter than the inner.

vitifolius. Leaves nearly glabrous, toothed, 5-angled, pointed: flowers drooping.

India. *Cavan. diff. 3. t. 58. f. 2. Rheed. Mal. 6. t. 46.*

Calyxes nearly glabrous, both of equal length.

tricuspis. Leaves hoary, with 3 lanceolate slightly toothed lobes: axillary peduncles 1 or 2-flowered, terminal ones somewhat racemed: outer calyx 9-toothed.

Society Islands. *Cavan. diss. t. 55. f. 2.* H. hastatus. *Linn. suppl.*
Plant hoary-downy: capsule globular, hoary.

virginicus. Leaves pointed, unequally toothed; the lower ones undivided, heart-shaped; upper ones hearted, oblong, 3-lobed: raceme terminal, with drooping flowers: pistils nodding.

Virginia. *Jacq. ic. rar. 1. t. 142. Pluk. phyt. 6. f. 4.*

Outer calyx as long as the inner: raceme naked.

pentacarpus. Leaves hearted, oblong, toothed, rather obtuse, angular, slightly 3-lobed; peduncles axillary: flowers drooping: pistils nodding.

Atracan. *Cavan. diss. t. 66. f. 3.* *Jacq. ic. rar. 1. t. 143.*

Upper leaves halbert-shaped, downy underneath: outer calyx hardly as long as the inner: corol pale red.

paniculatus. Leaves toothed; the upper ones with 5 oblong nearly equal obtuse lobes: calyxes inflated, membranaceous, nerved.

Africa. *Cavan. t. 64. f. 2.* Lowest leaves undivided.

Triumf. Leaves toothed; the upper ones 3-parted with lanceolate lobes, the middle lobe very long: calyx inflated, membranaceous, nerved.

Italy. *Curt. mag. t. 209. Cavan. t. 64. f. 1. 2) t. 64. f. 3.*

Stem hairy: leaves glabrous; peduncles 1-flowered.

1332. PAVONIA. Calyx double; the outermost many-leaved: *stigmata* 10: capsules 5, 2-valved, 1-seeded.

præmorsa. Leaves roundish wedge-form, truncate, toothed at top, pubescent.

Hibiscus præmorsus. *Linn. suppl. Curt. mag. t. 436.*

The Cape. *Cavan. diss. t. 45. f. 1. Jacq. ic. rar. 1. t. 141.*

Flowers yellow, solitary, on very long peduncles.

leptocarpa. Leaves lanceolate, serrate: calyx 5-leaved.

Surinam. *Linn. suppl. 308.* Urena.

Flowers in terminal heads: both calyxes 5-leaved.

Typhalæa. Leaves oblong-lanceolate, serrate: heads of flowers peduncled, terminal: outer calyx 5-cleft: capsules with 3 awns.

Urena Typhalæa. *Mant. 258. Swartz. obs. 264.*

Jamaica. *Cavan. diss. 6. p. 350. t. 197.*

Capsules with 3 awns toothed backwards, the middle longer.

- bastata.* Leaves lanceolate, halbert-shaped, toothed: peduncles axillary: outer calyx 5-leaved.
 Brasil. *Cavan. diss. t. 47. f. 2.* Leaves dotted above.
- spinifex.* Leaves ovate, pointed, somewhat hearted, doubly toothed: peduncles axillary: calyx 7-leaved: capsule with 4 divergent awns.
Hibiscus spinifex. Sp. pl. 978. Jacq. hort. t. 103.
 South America. *Cavan. diss. t. 45. f. 2. 2) t. 45. f. 3.*
- papilionacea* Leaves roundish-hearted, acute, toothed: peduncles axillary: style ascending.
 Otaheite. *Cavan. diss. 3. t. 49 f. 1.* Stem downy.
- cancellata.* Leaves arrow-hearted, toothed: peduncles axillary: outer calyx many-leaved, hairy, longer than the inner.
Hibiscus cancellatus. Linn. suppl. 311.
 Surinam. *Outer calyx 10-leaved, inner 5-cleft.*
- racemosa.* Leaves ovate, hearted, pointed, slightly serrate: raceme terminal: outer calyx 8-cleft.
 Jamaica. *Sloane Jam. 1. t. 139. f. 2. Cavan. diff. t. 46. f. 1.*
Leaves rough: raceme spiked: flowers whitish.
- corymbosa.* Leaves heart-shaped or angular, serrate, glabrous: peduncles and many-leaved calyxes hairy: flowers corymbed.
 Jamaica. *Swartz prodr. 101. Fl. ind. occ. 2. p. 1213.* Althæa,
- paniculata.* Leaves roundish-hearted, serrate, pointed or tricuspidate, glabrous: peduncles and many-leaved calyxes hairy: racemes corymbed, terminal and axillary: styles ascending.
 Peru. *Cavan. diff. 3. t. 46. f. 2.* Stem hairy.
- odorata.* Leaves ovate, somewhat hearted, tricuspidate, slightly toothed, and with the branches viscid-hairy: peduncles axillary: calyxes many-leaved.
 East Indies. *Willd. sp. pl. 3. p. 837. n. 11.*
Plant viscid-hairy: outer calyx of 12 ciliate leaves.
- coccinea.* Leaves heart-shaped, 3-lobed, serrate: peduncles axillary, 1 flowered, ascending: outer calyx 5-leaved.
 St. Domingo. *Cavan. diss. 3. t. 47. f. 1. Plum. ic. 169. f. 2.*
Leaves pubescent: flowers scarlet, revolute.
- Columella.* Leaves 5-angled, pointed, toothed, glabrous: peduncles axillary, solitary: outer calyx 5-leaved.
 Bourbon. *Cavan. t. 48. f. 3.* Flowers nearly sessile.
- urens.* Leaves 7-angled, pointed, toothed, hairy: flowers axillary, clustered, nearly sessile: outer calyx about 9-leaved.
 Mauritius. *Cavan. diss. t. 49. f. 1. Jacq. ic. rar. 3. t. 522.*

- zeylanica.* Leaves 5-parted in a palmate manner, with lanceolate toothed divisions: peduncles axillary, longer than the last: outer calyx of 10 larger setaceous ciliate leaves.
Hibiscus zeylanicus. *Sp. pl. Burm. Ind.* t. 48. f. 2.
 Ceylon. *Cavan. diff.* t. 48. f. 2. *Pluk. alm.* t. 125. f. 3.

1333. ACHANIA. *Calyx* double; the outermost many-leaved: *corol* convolute and closed: *stigmata* 10: *berry* 5-celled, 5-seeded.

- Malavaviscus.* Leaves roughish, pointed: leaves of the outer calyx erect.
Hibiscus Malavaviscus. *Sp. pl. Hort. Rom.* 1. t. 54.
Jamaica. *Cavan. diff.* t. 48. f. 1. *Sloune Jam.* 1. t. 136. f. 1.
Stem arboreous: *leaves* hearted, crenate, downy: *outer calyx* 8-leaved; *corol* deep scarlet, spirally twisted.
- mollis.* Leaves clothed with thick down: leaves of the outer calyx spreading.
 America. *Aiton Kew.* 2. p. 459. Plant downy.
- pilosa.* Leaves hairy, obtuse, and acute.
Jamaica. *Aiton Kew.* 2. p. 459. *Savartx prodr.* 102.
Leaves of the outer calyx spread, spatulate.

1334. STUARTIA. *Calyx* single, wheel-shaped: *petals* 5: *styles* 5, united or distinct: *capsule* 5-celled, 5-valved: *seeds* 1 or 2.

- Malachodendron.* Flowers lateral, 1 or 2 together: *calyx* ovate, obtuse: *styles* united.
 Carolina. *Cavan. diff.* t. 159. f. 2. *Catesby carol.* 3. t. 13.
Shrub with spear-shaped ferrate leaves: *flowers* white.
- pentagyna.* Flowers axillary, solitary: *calyx* calyced, lanceolate: *styles* distinct.
 Virginia. *Cavan. diff.* t. 158. f. 2. *L'Herit. stirp.* 1. t. 74.

1335. GORDONIA. *Calyx* single: *style* 5-sided, with a 5-cleft stigma: *capsule* 5-celled: *seeds* 2, with a foliaceous wing on one side. *Loblolly Bay.*

- Lasianthus.* Flowers on long peduncles: leaves coriaceous, glabrous: *capsules* ovate.
 Carolina. *Cavan. diff.* t. 161. *Catesby carol.* 1. t. 54.
Calyx downy, villous at the edge: *flowers* yellow.
- Hæmatoxylon.* Leaves ovate, pointed, ferrate, recurved at the tip: *peduncles* very short: *flowers* with 5 styles.
Jamaica. *Savartx Fl. ind. occid.* 2. p. 1199.
- pubescens.* Flowers nearly sessile: leaves pubescent underneath.
 Carolina. *Cavan. diff.* 6. p. 308. t. 162.

- Franklini.* Flowers sessile: leaves glabrous: fruit globular.
 Carolina. *Bartram's Travels*, p. 16. & 467.
 Shrub 20 feet high: leaves oblong, serrate: flowers axillary,
 solitary, white, with the petals curled.

1336. CAMELLIA. *Calyx* of numerous imbricate
 leaves, the inner ones larger.

- japonica.* Leaves pointed, acutely serrate. *Japan Rose.*
 Japan. *Curt. mag.* t. 42. *Andrews repos.* t. 25 91. 199.
 Tree with ovate alternate shining leaves: peduncles terminal:
 petals large, thick, red or white.

- Sasanqua.* Leaves emarginate, obtusely serrate.
 Japan. *Cavan. diss.* t. 160. f. 2.
 Leaves thinner: flowers much less: petals emarginate.

1337. MESUA. *Calyx* single, 4-leaved: petals 4:
 pistil 1: nut 4-sided, 1-seeded.

- ferrea.* MESUA.
 Indies. *Rheed. Mal.* 3. t. 53. *Rumph. amb.* 7. t. 2.
 Tree with lanceolate very entire leaves: flowers axillary, sessile:
 petals large, rounded, white.

1338. MYRODIA. *Calyx* single, tubular, burst-
 ing at top: petals 5: style filiform: drupe dry,
 2 or 3-celled; the cell, 1-seeded.

- turbinata.* Leaves ovate-oblong: calyx turbinate: column of the sta-
 mina shorter than the petals.
 Caribbees. *Swartz. prodr.* 102. *Fl. ind. occ.* 2. p. 1227.
longiflora. Leaves lance-oblong: calyx cylindrical: column of the
 stamina longer than the petals.
 Guiana. *Cavan. diss.* t. 71 f. 2. *Aubl. Gui.* 2. t. 278.
 Shrub with entire leaves: flowers axillary, clustered.

1339. MORISONIA. *Calyx* single, bifid: petals 4:
 pistil 1: berry pedicelled, 1-celled, many-seeded,
 with a hard bark.

- americana.* MORISONIA.
 America. *Cavan. diss.* 6. t. 163. *Jacq. Amer.* t. 97.
 Tree with oblong, entire, shining, coriaceous leaves.

1340. POURRETIA. *Calyx* 5-parted: petals 5,
 lanceolate: drupe dry, 1-seeded, large, winged.

- arborea.* POURRETIA.
 Peru. *Ruiz et Pavon. prodr.* t. 20. *Cavanillesia.*

1341. **CROSSOSTYLIS.** *Calyx* 4-parted: *petals* 4, inserted into the calyx: *nectaries* 20 threads inserted on the ring supporting the stamina and alternating with them: *berry* 1-celled, many-seeded.

biflora.

CROSSOSTYLIS.

Society Islands. *Forst. Gen. pl. p. 88. t. 44.*

1342. **BARRINGTONIA.** *Calyx* 2-leaved, superior: *petals* 4: *drupe* dry, large, quadrangular, with a 4-celled nut.

speciosa.

BARRINGTONIA.

Tropics. *Cook's Voy. 1. t. 24. Forst. Gen. t. 38. a, b.*

Tree lofty: *leaves* crowded, sessile, wedge-form, obtuse, very entire, coriaceous, shining: *flowers* white, in an erect thyrse.

1343. **GUSTAVIA.** *Calyx* 4 or 6-cleft: *petals* 4 or 6: *berry* dry, 4 or 5 celled.

angusta.

Calyx with 4 roundish petal-like divisions: *petals* 4: *leaves* oblong, pointed, toothed.

Surinam. *Aubl. Gui. 1. t. 192. Linn. diss. alt. ic.*

Tree 20—30 feet high: *leaves* nearly sessile, glabrous: *peduncles* terminal, 2 or 3 together, 1-flowered: *flowers* large, white; the petals tipped with red.

fastuosa.

Calyx with 7 lanceolate segments: *petals* 6: *leaves* obovate, pointed, ferrulate.

Guiana. *Aubl. Gui. 1. tab. 193.*

Tree 25 feet high: *leaves* glabrous.

CLASS XVII. DIADELPHIA.

Stamina united in 2 distinct sets.

ORDER I. PENTANDRIA.

1344. MONNIERIA. *Calyx 5-parted: corol ringent: stamina 2; the upper one with 2 antheræ, lower one with 3: capsules 5.*

ORDER II. HEXANDRIA.

1346. FUMARIA. *Calyx 2-leaved: corol ringent, with a nectariferous gibbosity at the base: filaments 2, each with 3 antheræ.*
1345. SARACA. *Calyx 0: corol 4-cleft: filaments 6, 3 in a set on each side the throat.*

ORDER III. OCTANDRIA.

1347. POLYGALA. *Calyx 5-leaved, 2 of them wing-shaped and coloured: corol with a cylindrical banner: legume inversely heart-shaped, 2-celled.*
1349. SECURIDACA. *Calyx 3-leaved: banner 2-leaved: legume 1-seeded, ending in a ligulate wing.*
1348. BREDEMYERA. *Calyx 3-leaved: banner 2-leaved: drupe with a 2-celled nut.*

ORDER IV. DECANDRIA.

A. All the stamina united.

1350. NISSOLIA. *Legume 1-seeded, ending in a ligulate wing.*
1354. DIPTERIX. *Legume 1-seeded, naked: 2 upper divisions of the calyx wing-shaped.*
1352. PTEROCARPUS. *Legume without valves, foliaceous, falcate.*
1353. AMERIMNUM. *Legume 2-valved, 3 or 4-seeded, foliaceous, lanceolate.*
1373. AMORPHA. *Corol without wings or keel.*
1362. TRIGONIA. *Keel of 2 petals: capsule 3-valved, 1-celled, many-seeded.*

1356. ERYTHRINA. *Wings and keel very short: calyx with a melliferous pore: legume swelling into protuberances.*
1358. RUDOLPHIA. *Wings and keel very short: legume compressed, many-seeded.*
1357. BUTEA. *Wings and keel very short: legume foliaceous, 1-seeded at top.*
1355. ABRUS. *Filaments 9, united at the very base, distinct on the upper side: seeds sphaerical.*
1368. LEBECKIA. *Calyx 5-parted, with the cavities rounded: legume cylindrical, many-seeded.*
1366. SPARTIUM. *Filaments adhering to the germ: stigma growing to the upper side, villous.*
1367. GENISTA. *Keel pressed back by the stamina and pistil: banner reflected: stigma involute.*
1369. RAFFIA. *Calyx 2-lipped: legume lanceolate, compressed.*
1381. LUPINUS. *Antheræ every other one rounded, with the intermediate ones oblong: legume coriaceous.*
1375. TETRAMNUS. *Filaments 5 barren, alternating with the 5 fertile longer ones: legume linear, compressed.*
1379. ANTHYLLIS. *Calyx turgid: legume roundish, covered with the calyx.*
1360. PISCIDIA. *Legume with 4 longitudinal wings.*
1359. WIBORGIA. *Legume turgid, grooved, winged.*
1371. SARCOPHYLLUM. *Legume scymitar-shaped, acute: calyx 5-parted, regular.*
1363. BORBONIA. *Legume mucronate: stigma emarginate.*
1365. OEDMANNIA. *Calyx 2-lipped; the upper lip cloven, lower setaceous.*
1372. ULEX. *Calyx 2-leaved: legume hardly longer than the calyx.*
1380. ARACHIS. *Corol reversed: legume coriaceous.*
1370. ASPALATHUS. *Legume unarmed, ovate, 1 or 2-seeded.*
1378. ONONIS. *Legume rhombic, sessile: banner striate.*
1376. BOSSIAEA. *Legume compressed, pedicelled: keel of 2 petals.*
1377. CROTALARIA. *Legume inflated, pedicelled.*
1361. PLATYLOBIUM. *Legume compressed, winged on the back.*

B. *Stigma pubescent.* Without the marks of the former division.

1399. COLUTEA. *Legume inflated, gaping above the base.*

1382. PHASEOLUS. *Keel and style spiral.*
 1383. DOLICHOS. *Banner with 2 callosities at the base.*
 1388. OROBUS. *Style linear, roundish, villous above.*
 1387. PISUM. *Style cairnate and villous above.*
 1389. LATHYRUS. *Style flat and villous above.*
 1390. VICIA. *Style bearded under the stigma.*
 1391. ERVUM. *Stigma capitate, pubescent all over.*

C. *Legume 2-celled.* Without the marks of the former divisions.

1413. ASTRAGALUS. *Legume 2-celled, gibbous.*
 1414. BISERRULA. *Legume 2-celled, flat, toothed.*
 1412. PHACA. *Legume half 2-celled, inflated.*

D. *Legume mostly 1-celled.* Without the marks of the former divisions.

1351. DALBERGIA. *Calyx obsoletely toothed: legume foliaceous.*
 1415. DALEA. *Wings and keel inserted on the column of the stamina.*
 1416. PSORALEA. *Keel of 2 petals: legume pointed.*
 1417. TRIFOLIUM. *Legume hardly longer than the calyx, 1 or 2-toothed: flowers in heads.*
 1419. DORYCNIUM. *Calyx 5-toothed: legume turgid.*
 1408. HALLIA. *Calyx 5-parted, regular: legume compressed.*
 1407. STYLOSANTHUS. *Calyx tubular at the base and bearing the corol.*
 1385. CYLISTIA. *Calyx 2-lipped, longer than the corol.*
 1400. GLYCYRRHIZA. *Calyx 2-lipped; the upper lip 3-cleft.*
 1374. DIMORPHA. *Calyx 4-parted: wings and keel 0.*

E. *Loment separating into joints.*

1395. MULLERA. *Loment moniliform: calyx 4-toothed.*
 1409. HEDYSARUM. *Loment with roundish compressed joints: keel very obtuse.*
 1405. SMITHIA. *Loment jointed; the joints cohering with the lateral style: calyx 2-lipped.*
 1401. CORONILLA. *Loment jointed, round, straight.*
 1402. ORNITHOPUS. *Loment jointed, curved.*
 1404. SCORPIURUS. *Loment divided by transverse partitions, round, involute: calyx inflated.*
 1406. ÆSCHYNOMENE. *Loment divided by transverse partitions, straight, flat: calyx 2-lipped.*
 1403. HIPPOCREPIS. *Loment compressed, nearly membranaceous, curved, with many deep notches in one of its sutures.*

F. *Legume 1-celled, many-seeded.* Without the marks of the former divisions.

1420. TRIGONELLA. *Banner and wings spreading as if 3-petalled: keel minute.*
 1384. GLYCINE. *Keel turning back the banner at the tip: style spirally rolled back.*
 1386. CLITORIA. *Banner large, covering the wings: corol reversed.*
 1398. ROBINIA. *Banner reflected and spreading, roundish.*
 1410. INDIGOFERA. *Keel with a tooth each side.*
 1392. CICER. *Calyx with the 4 upper divisions incumbent on the keel.*
 1393. LIPARIA. *Calyx with the lowest division elongated: wings 2 lobed below.*
 1364. ACHYRONIA. *Calyx 5-toothed; the lower-tooth elongated and cloven.*
 1394. CYTISUS. *Legume pedicelled: calyx 2-lipped.*
 1397. DIPHYSA. *Legume linear, with a longitudinal inflated bladder each side.*
 1411 GALEGA. *Legume linear, with oblique transverse striæ between the seeds.*
 1418. LOTUS. *Legume cylindrical: wings cohering by their upper edge.*
 1421. MEDICAGO. *Legume spiral, compressed, forcing back the keel from the banner.*
 1396. GEOFFROYA. *Drupe with a woody nut,*

† *Synopsis of the Papilionaceous tribe.*

1. *Twining.* Phaseolus. Dolichos. Clitoria. Glycine.
2. *Pinnate, without an odd leaf at the end.* Orobus. Pisum. Lathyrus. Vicia. Ervum. Arachis.
3. *Pinnate, with an odd leaf at the end.* Biferrula. Astragalus. Phaca. Hedylarum. Glycyrrhiza. Indigofera. Galega. Colutea. Amorpha. Piscidia.
4. *With 3 leaves.* Trifolium. Lotus. Medicago. Erythrina. Genista. Cytisus. Ononis. Trigonella. Phaseolus. Dolichos. Clitoria.
5. *Umbelled.* Lotus. Dorycnium. Coronilla. Ornithopus. Hippocrepis. Scorpiurus.

ORDER I. PENTANDRIA: 5 *stamina* in 2 *sets*.

1344. MONNIERIA. *Calyx* 5-parted, the upper division long: *corol* ringent: *filaments* 2; the upper one with 2 antheræ, lower one with 3: *capsules* 5, 1-seeded.

trifolia, MONNIERIA.

Guiana. *Aubl. Gui.* 2. p. 731. *tab.* 793.

Stem forked: *leaves* ternate: *flowers* white, spiked.

ORDER II. HEXANDRIA: 6 *stamina* in 2 *sets*.

1345. SARACA. *Calyx* 0: *corol* funnel-form, 4-cleft: *filaments* 3 each side on the throat of the *corol*: *legume* pedicelled.

indica, SARACA.

India. *Burm. Ind.* 85. *tab.* 25. *f.* 2.

Tree with pinnate leaves without an odd one; leaflets 01 long: *panicle* of alternate racemes or spikes.

1346. FUMARIA. *Calyx* 2-leaved: *corol* ringent: *filaments* 2, membranaceous, each with 3 antheræ. *Fumitory*.

A. *Corols* with 2 *spurs* or *protuberances*.

Cucullaria. Stemless; *scape* naked: *raceme* pointing one way: *corols* with 2 *spurs* at the base.

Virginia. *Pluk. alm* 162. *t.* 90. *f.* 3.

Leaves 2, radical, thrice ternate and cut: *scape* rufous: *raceme* terminal, simple, with pendulous flowers.

fungosa. Stem ascending: *corymbs* axillary: *corols* with 2 gibbosities at the base.

Pensylvania. *Aiton Kew.* 3. p. 1, *Willd.* 3. p. 857.

Stem climbing: *leaves* thrice ternate, with wedge-shaped 3-lobed obtuse leaflets: *flowers* violet, pendulous.

sp.abilis. Stem erect: *raceme* terminal, without bractes: *corols* 2-lobed at the base.

Siberia, on the confines of China. *Amæn. acad.* 7. *t.* 7.

B. *Corols* with a single spur.

nobilis. Stem simple: *raceme* terminal: bractes oblong, acute, shorter than the flower: *leaves* pinnate; the leaflets 3-parted in a jagged manner.

Siberia. *Jacq. hort.* 1. 116. *Scapes* oblique, 5-sided.

- bracteata.* Stem simple: raceme terminal: bractes wedge-shaped, in finger-like divisions, as long as the flower: leaves twice ternate and 3-parted.
Siberia. Willd. 3. p. 859. Spur not curved, as long as the flower.
- incisa.* Stem simple: raceme terminal: bractes oblong, cut-ferrate, shorter than the peduncle: leaves twice ternate, cut-ferrate.
Japan. Thunb. nov. Act. petrop. 12. p. 114. t. D.
Leaflets oblong, trifid or pinnatifid with pointed teeth: bractes with pointed teeth: corol yellow, with a straight spur.
- pæoniæfolia* Stem branched: raceme terminal: bractes lanceolate, shorter than the flower: leaves twice ternate, ovate, 3-parted.
Siberia, Gmel. Sib. 4. p. 66 t. 34.
Leaves glaucous underneath: flowers purple.
- longiflora.* Stem simple: raceme terminal: bractes lanceolate, shorter than the peduncle: corol with a subulate recurved spur: leaves thrice ternate: root tuberous.
Siberia. Pall. Act. Petrop. 1779. 2. t. 14. f. 1—3.
Root roundish, solid: leaflets glaucous, 3-parted, acute, oblong-lanceolate: corol purple.
- marschalliana.* Stem simple: raceme terminal: bractes ovate, longer than the flower: leaves twice ternate, elliptic: root tuberous.
Tauria. Pall. Act. Petrop. 10. p. 315.
- bulbosa.* Stem simple: raceme terminal: bractes oblong-ovate, longer than the peduncles: leaves twice ternate, oblong, rather acute: root tuberous, hollow.
Europe Curt. mag. t. 232. Blackw. t. 534. Fl. Dan. t. 605.
- pauciflora.* Stem simple: raceme terminal, few-flowered: bractes acute, longer than the peduncles: leaves twice ternate, with 3-lobed, mucronate, imbricate leaflets: root tuberous.
Siberia. Willd. 3. p. 861. Leaflets sessile, imbricate.
- fabacea.* Stem simple: raceme terminal: bractes roundish, as long as the flower: corol with a straight spur: leaves twice ternate: root tuberous.
Sweden; Germany. Willd. 3. p. 862. Raceme few-flowered,
- decumbens.* Stem simple, decumbent: raceme terminal: bractes ovate, as long as the peduncle: corol with a straight spur: leaves twice ternate: root tuberous.
Japan. Thunb. nov. Act. Petrop. 12. p. 102. t. A.
Leaflets wedge-form, 3-toothed: raceme 3 or 4-flowered.

- * *solida*. Stem simple: raceme terminal: bractes wedge-shaped, palmate, longer than the peduncle: leaves twice ternate: root tuberous.
Fumaria Halleri. *Fl. Dan.* t. 1224. *Willd.* 3. p. 863.
Woods. *Curt. mag.* t. 231. *Wither. bot. arr.* 620. t. 29.
- semper-virens*. Stem branched, erect: siliques linear, thrice as long as the peduncles.
Virginia. *Curt. mag.* t. 179. *Mill. dict.* t. 79.
- sibirica*. Stem branched, nearly erect: siliques elliptic, compressed, acute.
Siberia. *Gmel. Sib.* 4. p. 65. tab. 33.
Leaves more than decomposed, with oblong leaflets.
- racemosa*. Stem branched, erect: bractes subulate, nearly as long as the corol: leaves doubly pinnate, with ovate 3-lobed toothed leaflets.
Japan. *Thunb. Aët. Petrop.* 12 t. B. Clayer. *Jap.* t. 31.
- pallida*. Stem weak, slightly branched: bractes oblong, toothed: leaves doubly pinnate, with pointed trifid leaflets, the uppermost confluent.
Japan. *Thunb. nov. Aët. Petrop.* 12. p. 103. t. C.
Raceme 4 flowered: spur obtuse, as long as the corol.
- acaulis*. Stemless: siliques linear: leaves twice ternate, 3-lobed.
Iliria. *Jacq. ic.* 3. t. 554. *Collect.* 2. p. 203.
- * *intea*. Stem branched, diffuse, obtusely angled: siliques linear-cylindrical, shorter than the peduncle: corol with a very short rounded spur.
Walls. *Eng. bot.* t. 588. *Mill. ic.* t. 136. f. 1, *illustr.* t. 60.
- capnioides*. Stem branched, diffuse, acutely angled: siliques linear, 3-sided, longer than the peduncle: corol with a subulate spur.
Europe. *Flowers* paler than those of the last.
- enneaphylla*. Stem erect, branched: leaves twice ternate: leaflets ovate-hearted, undivided, acute.
Spain. *Bocc. mus.* 2. t. 73. *Barr. ic.* 42.
- crassifolia*. Stem branched, diffuse: leaves fleshy, simple and ternate, on very long petioles.
Barbary. *Desfont. atl.* 2. p. 126. t. 173.
- corymbosa*. Stemless: leaves pinnate, with 3-parted and cut divisions: siliques 1-seeded, compressed, ovate, acute, rugged.
Barbary. *Desfont. Aët. Soc. Paris.* 1. p. 26. t. 6.
Scapes shorter than the leaves: raceme terminal.
- * *officinalis*. Stem branched, diffuse: siliques globular, emarginate, 1-seeded: leaves more than decomposed, with wedge-lanceolate cut segments.
Fields. *Eng. bot.* t. 589. *Curt. Lond. fasc.* 2. t. 52.

- * *parviflora* Stem branched, diffuse: siliques globular with a point, 1-seeded: leaves more than decomposed, with 3-parted linear channelled segments.
Fields. *Eng. bot. t. 590. Moris. sect. 3. p. 261. t. 12. f. 11.*
- * *capreolata* Stem branched, climbing: siliques globular, 1-seeded: leaves thrice ternate, with obovate wedge-form cut leaflets: petioles twisted like tendrils.
Fields. *Eng. bot. t. 943. Curt. Lond. fasc. 6. t. 47.*
- spicata.* Stem branched, erect: siliques oblong, compressed, 1-seeded: leaves more than decomposed, with 3-parted filiform leaflets.
Spain. *Morif. 2. sect. 3. t. 12. f. 13. Barr. ic. 41.*
- * *claviculata.* Stem branched, climbing: siliques oblong, compressed, 2 or 3-seeded: lower leaves twice ternate; those of the branches simply ternate; the petioles ending in tendrils.
Moist shades. *Eng. bot. t. 103. Moris. 2. f. 3. t. 12. f. 3.*
- vesicaria.* Stem branched, climbing: siliques globular, inflated, reticulate: petioles ending in tendrils.
The Cape. *Pluk. alm. t. 335. f. 3. Boerb. Lugdb. 1. t. 310.*

ORDER III. OCTANDRIA: 8 *stamina* in 2 sets.

1347. POLYGALA. *Calyx* 5-leaved, 2 of them wing-shaped and coloured: *legume* inversely heart-shaped, 2-celled, 2-valved. *Milk-wort.*

A. *Flowers with a crest or pencil-like appendage.*

- incarnata.* Flowers crested, spiked: stem herbaceous, branched, erect: leaves alternate, subulate.
Virginia; Canada. *Pluk mant. t. 438. f. 5.*
Leaves few, small, appressed: *corols* narrow, long.
- aspalatha.* Flowers crested, in heads: stems quite simple: leaves setaceous, scattered.
Brasil. *Corol* white with lanceolate wings.
- brasilensis.* Flowers crested, somewhat spiked: stem quite simple: leaves lanceolate, scattered.
Brasil. *Stems* filiform, prostrate: *flowers* without bractes, with ovate obtuse wings. *Spike* straight.
- richosperma.* Flowers crested, spiked: stems wand-like; striate: leaves linear: seeds awned.
New Granada. *Jacq Obs 3 p. 16. t. 67.*
Stem erect, striate: *spikes* terminal, oblong.

- amara.* Flowers crested, racemed: wings of the calyx 3-nerved, obtuse, longer than the corol: stems nearly erect: leaves obtuse, the radical ones obovate.
South of Europe. *Vail. Paris.* 161. t. 32. f. 2.
Plant bitter, with much larger leaves than the next.
- * *vulgaris.* Flowers crested, racemed: wings of the calyx 3-nerved, obtuse, as long as the corol: stems procumbent: leaves linear-lanceolate, mostly acute.
Pastures. *Eng. bot.* t. 76. *Flor. Dan.* t. 516.
- major.* Flowers crested, racemed: wings of the calyx many-nerved, obtuse with a point, shorter than the corol: stems erect: leaves linear-lanceolate, acute.
Austria. *Jacq. Austr.* 5 t. 413. *Buxb. cent.* 3. t. 70. f. 1.
- monspehiaca* Flowers crested, racemed: wings of the calyx reticulate, acute, longer than the corol: leaves linear-lanceolate, acute.
Montpellier. *Wings* of the calyx reticulate with veins.
- rubella.* Flowers crested, racemed, without bractes: wings of the calyx 3-nerved, obtuse, longer than the corol: stems erect, with linear obtuse leaves; radical leaves ovate.
Pennsylvania. *Willd. sp. pl.* 3. p. 875. n. 9.
Root-leaves petioled; stem-leaves sessile.
- rosea.* Flowers crested, racemed: wings of the calyx with nervous veins, obtuse, shorter than the corol: stem somewhat shrubby: leaves obtuse; the upper ones linear, lower ones lanceolate.
Barbary. *Desfont. atl.* 2. p. 128. t. 176.
- andrachnoides.* Flowers crested, racemed: wings of the calyx 3-nerved, obtuse, longer than the corol: stems branched, procumbent: leaves obovate, somewhat retuse.
Armenia. *Schreb. dec.* t. 10. *Buxb. cent.* 3. t. 70. f. 2.
- oxyccoides.* Flowers crested, in umbelled racemes: wings of the calyx veined, ovate, as long as the corol: stem branched, shrubby, procumbent: leaves elliptic, obtuse.
Barbary. *Desfont. atl.* 2. p. 127. tab. 174.
- telephioides.* Flowers crested: racemes axillary: stem simple, erect: leaves oblong, obtuse, tapering to the base.
East Indies. *Willd. sp. pl.* 3. p. 876. n. 13.
- arvensis.* Flowers crested: racemes axillary, longer than the leaf: stems procumbent: leaves obovate, mucronate.
East Indies. *Willd. sp. pl.* 3. p. 876. n. 14.
- linarifolia.* Flowers crested: racemes axillary, few-flowered: stem branched, erect, wand-like: leaves linear, stiff.
Mindanao Island. *Willd. sp. pl.* 3. p. 877. n. 15.

- thesioides*. Flowers crested: racemes terminal, many-flowered: stems erect, branched at top: leaves linear, crowded.
Brasil. *Feuill. Peru.* 1. t. 13. Flowers blue.
- paniculata*. Flowers crested: racemes axillary, on very long peduncles: stems erect, branched at top: leaves linear, acute.
West Indies. *Swartz obs.* 272. t. 6. f. 2.
- tenella*. Flowers crested: racemes terminal, on very long peduncles: stems erect, branched at top: leaves linear, acute, mucronate.
Panama. *Willd. sp. pl.* 3. p. 878. n. 18.
Capsules roundish, emarginate: *seeds* hairy.
- sulcata*. Flowers crested: racemes terminal, peduncled: stems erect, grooved, branched at top: leaves linear, appressed.
Brasil. *Willd. sp. pl.* 3. p. 878. n. 19.
- gnidioides*. Flowers crested: racemes terminal, few-flowered: stems shrubby, branched, diffuse: leaves linear, obtuse.
Chili. *Willd. sp. pl.* 3. p. 878. n. 20.
- sibirica*. Flowers crested: racemes axillary, peduncled: stems a little branched at the base: leaves lanceolate.
Siberia. *Gmel. Sib.* 4. p. 64. t. 32.
- tenuifolia*. Flowers crested: racemes axillary, peduncled: stems branched at the base: leaves linear, mucronate.
Siberia. *Wings* of the calyx obtuse, not mucronate.
- elongata*. Flowers crested: racemes axillary: stem branched at the base: leaves linear, obtuse with a point, ciliate round the margin.
East Indies. *Willd. sp. pl.* 3. p. 879. n. 23.
- cinerea*. Flowers crested: racemes terminal: stem erect, branched: leaves lanceolate, with cinereous hairs.
Guiana; Cayenne. *Aubl. Gui.* 2. p. 735. t. 294.
- pauciflora*. Flowers crested, terminal, 3 together: stems simple, erect, naked below: leaves ovate.
Pennsylvania. *Willd. sp. pl.* 3. p. 880. n. 25.
Stem with 3 remote ovate appressed scales beneath, and 3 ovate acute membranaceous leaves at top.
- arenaria*. Flowers crested: spikes axillary, elliptic, imbricate: stem procumbent: leaves lanceolate, obtuse, pubescent.
Guinea. *Willd. sp. pl.* 3. p. 880. n. 26.
- lupulina*. Flowers crested: spikes terminal, cylindrical, imbricate: stem erect, branched: leaves oblong, acute.
Guiana. *Aubl. Gui.* 2. t. 295. T. Timoutou.

- japonica*. Flowers crested: racemes axillary: stem erect, herbaceous: lower-leaves roundish, obtuse; upper ones ovate, acute.
Japan. *Houtt. Linn. Syst. 8. t. 62 f. 1.*
- bracteolata*. Flowers crested: racemes terminal: wings of the calyx cuspidate, many-nerved: stem erect, shrubby: leaves linear-lanceolate, glabrous.
The Cape. *Curt. mag. t. 345. Buxb. cent. 3. p. 71.*
Leaves sometimes rough, varying in their shape.
- cernua*. Flowers crested, racemed: leaves lanceolate, glabrous.
The Cape. *Thunb. prodr. 120.*
- teretifolia*. Flowers crested: racemes terminal, few-flowered: wings of the calyx ovate, rather acute, many-nerved: stem shrubby: leaves linear-subulate.
The Cape. *Pluk. mant. t. 440. f. 6. Burm. afr. t. 73. f. 3.*
Leaves linear-subulate, incurved: branchlets pubescent.
- guineensis*. Flowers crested: racemes axillary, pointing one way: stem branched, herbaceous: leaves filiform.
Guinea. *Willd. 3. p. 882.* Leaves erect, acute.
- saxatilis*. Flowers crested: racemes mostly terminal, few-flowered: stem shrubby, decumbent: leaves oblong-lanceolate, mucronate.
Barbary. *Desfont. atl. 2. p. 128. t. 175.*
Branches pubescent: racemes 3 or 4-flowered.
- umbellata*. Flowers crested: racemes axillary, crowded at the top of the stem: leaves linear, slightly ciliate.
The Cape. *Burm. afr. 204. t. 73. f. 5.*
Leaves scattered, linear, acute, erect: flowers numerous.
- virgata*. Flowers crested, racemed: bractes 3-leaved: leaves ovate-oblong.
The Cape. *Thunb. prodr. 120.*
- amœna*. Flowers crested, lateral: leaves obovate, obtuse, glabrous.
The Cape. *Thunb. prodr. 120.*
- myrtifolia*. Flowers crested: racemes terminal, few-flowered: keel of the corol falcate: stem shrubby: leaves oblong, rather obtuse, glabrous.
The Cape. *Pluk. mant. t. 437. f. 4. Burm. afr. t. 73. f. 1.*
- tinctoria*. Plant villous: flowers crested: bractes 3-leaved: leaves obovate: stem shrubby.
Arabia Felix. *Vahl. symb. 1. p. 50.*
Wings of the calyx rounded, obtuse.
- oppositifolia*. Flowers crested: stem shrubby: leaves opposite, ovate, acute.
The Cape. *Leaves sessile, very entire, glabrous.*

cordifolia. Flowers crested: raceme terminal: stem shrubby: branches pubescent: leaves opposite, heart-shaped, mucronate.
The Cape. *Curt. mag. t. 492. P. oppositifolia.*

tomentosa. Flowers crested, in whorls: leaves heart-shaped, downy underneath
The Cape. *Thunb. prodr. 120.*

spinosa. Flowers crested, axillary, solitary: stem shrubby, spinous: leaves oval, obtuse with a point.
The Cape. *Branches ending in a strong spine.*

B. Flowers not crested: shrubby.

theezans. Flowers beardless: peduncles 1-flowered: stem shrubby: leaves alternate, lanceolate.
Japan; Java. *Burm. zeyl 195. t. 85.*
Stem white at bottom as in the Birch.

Penæa. Flowers beardless, lateral, solitary: stem arboreous: leaves obtuse, petioled.
South America. *Plum. spec. 22. ic. 214. f. 1.*

diversifolia. Flowers beardless: racemes axillary, longer than the petiole: stem arboreous: leaves oblong, pointed.
South America. *Brown Jam. t. 5. f. 3, 4. Sloane 2. t. 170. f. 2.*

acuminata. Flowers beardless: racemes lateral, opposite and longer than the leaves: stem shrubby: leaves oblong, pointed.
New Spain. *Willd. sp. pl. 3. p. 887. n. 46.*

æstuans. Flowers beardless, racemed: leaves lanceolate, petioled: stem shrubby.
New Granada. *Banner of the corol blue.*

mucronata. Flowers beardless: racemes terminal: stem shrubby, with hairy branches: leaves lanceolate, mucronate, pubescent underneath.
South America. *Willd. sp. pl. 3. p. 888. n. 48.*

violacea. Flowers beardless: racemes terminal and lateral: stem shrubby, with pubescent branches: leaves oblong, obtuse, pubescent underneath.
Cayenne. *Vahl symb. 2. p. 79.*
Racemes opposite the leaves: flowers nodding.

microphylla. Flowers beardless, racemed: stems shrubby: leaves very minute, elliptic.
Spain. *Stems filiform: leaves subulate or elliptic.*

chinensis. Flowers beardless, spiked, axillary: stems somewhat shrubby: leaves oval.
India. *Stems decumbent: leaves obtuse with a point.*

- myrtilloides*. Flowers beardless: racemes opposite the leaves: stem shrubby, procumbent: leaves roundish-ovate, reticulate with veins.
South America. *Willd. sp. pl.* 3. p. 889. n. 52.
Leaves obtuse, glabrous: *capsules* ciliate.
- Chamaebuxus*. Flowers beardless: peduncles terminal and axillary, 1 or 2-flowered: leaves oblong-lanceolate, acute.
Austria. *Curt. mag.* t. 316. *Jacq. Austr.* 3. t. 233.
Upper-leaves rounded, obovate, often emarginate.
- rhymifolia*. Flowers beardless: peduncles solitary, axillary: leaves fascicled, oblong-lanceolate, mucronate, denticulate, glabrous.
The Cape. *Thunb. prodr.* 121. *Leaves* carinate.
- aloppecuroides*. Flowers beardless: peduncles solitary, axillary: leaves fascicled, ovate, mucronate, ciliate.
The Cape. *Stem* procumbent: *leaves* carinate, not rigid, hairy round the margin and underneath: *flowers* sessile.
- Heisteria*. Flowers beardless, lateral: stem arboresecent: leaves 3-sided, ending in a spine.
Austria. *Jacq. Austr.* t. 233. *Curt. mag.* t. 340.
Leaves crowded, more or less ciliate: *flowers* purple.
- mixta*. Flowers beardless, sessile: leaves cylindrical, mucronate, very much crowded.
The Cape. *Leaves* not ciliate or flat.
- phylicoides*. Flowers beardless, axillary: leaves alternate, linear-lanceolate, mucronate, pubescent underneath, revolute at the edge.
The Cape. *Thunb. prodr.* 121. Branchlets pubescent.
- filiformis*. Flowers beardless, lateral: leaves solitary, 3-sided, mucronate.
The Cape. *Thunb. prodr.* 121.
- micrantha*. Flowers beardless, axillary, sessile: leaves linear, mucronate.
The Cape. *Thunb. prodr.* 121.
- stipulacea*. Flowers beardless, lateral: stem somewhat shrubby: leaves 3 together, linear, acute.
The Cape. *Comm. hort.* 2. t. 97. *Seba mus.* 2. t. 68. f. 2.
Lower-leaves often alternate; upper ones in threes.
- striata*. Flowers beardless, lateral: leaves nearly cylindrical, unarmed.
The Cape. *Thunb. prodr.* 121.

pauciflora. Flowers beardless, axillary, peduncled: leaves linear, mucronate.

The Cape. *Thunb. prodr.* 121.

laxa. Flowers beardless, racemed: leaves solitary, lanceolate, mucronate.

The Cape. *Thunb. prodr.* 121.

squarrosa. Flowers beardless: stem shrubby; leaves aggregate, lanceolate, spreading.

The Cape. *Leaves* mucronate, the lower ones reflected.

trinervia. Flowers beardless: peduncles 1-flowered: leaves alternate, heart-shaped, cuspidate, 3-nerved: stem shrubby, angular.

The Cape. *Capsules* oblong, 2-horned at top.

C. Beardless, herbaceous, with the stem quite simple.

Senega. Flowers beardless: spike terminal, filiform: stem erect, herbaceous, quite simple: leaves oblong-lanceolate, acute.

Rattle-snake root.

North America. *Woodv. med. bot.* t. 93. *Miller dict.* t. 5.

Root woody, branched, twilted: *stems* simple, erect, slender, glabrous, reddish: *leaves* alternate: *flowers* white.

lutea. Flowers beardless: raceme in a cylindrical terminal head: stem simple, herbaceous: leaves oblong-lanceolate, acute.

Virginia. *Pluk. amaltb.* t. 438. f. 6. Flowers yellow.

viridescens. Flowers beardless, in globular terminal heads: stem erect, simple, herbaceous: leaves linear, rather obtuse.

Virginia. *Flowers* greenish-white.

triflora. Flowers beardless: peduncles 2 or 3-flowered: stem herbaceous, erect: leaves linear, alternate.

Ceylon. *Leaves* acute: *flowers* axillary, white.

glaucoides. Flowers beardless: peduncles many-flowered, lateral: stems diffuse, herbaceous: leaves lanceolate, mucronate.

Ceylon. *Leaves* obtuse with a point.

prostrata. Flowers beardless: peduncles many-flowered: stems diffuse, herbaceous: leaves lanceolate, obtuse.

East Indies. *Willd. sp. pl.* 3. p. 896. n. 72.

D. Beardless, herbaceous, with the stem branched.

ciliata. Flowers beardless, racemed: capsules ciliate with teeth: stem branched, herbaceous, erect, hairy: peduncles hairy: leaves lanceolate, obtuse.

East Indies. *Leaves* sometimes hearted.

sanguinea. Flowers beardless: peduncles squarrous: stem herbaceous, branched, erect.

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Virginia. *Pluk. mant.* 153. t. 437. f. 5.

Stem angular: *leaves* narrow-lanceolate: *spikes* terminal, lax, ovate, red; the lower florets falling off.

verticillata Flowers beardless, with a space between each: leaves linear, whorled: stem herbaceous, branched.

Virginia. *Pluk. mant.* 153. t. 438. f. 4.

Spikes very narrow, with the flowers remote.

cruciata, Flowers beardless, in spiked heads: leaves in fours, linear-lanceolate: stem slightly branched, erect.

Virginia. *Flowers* in a reddish-green head.

1348. BREDEMEYERA. *Calyx* 3-leaved: *corol* papilionaceous; the banner 2-leaved: *drupe* with a 2-celled nut.

floribunda, BREDEMEYERA.

Caraccas. *Willd. atl. soc. nat. herol.* 3. p. 412. t. 6.

Shrub branched: *leaves* oblong-lanceolate, very entire, glabrous: *flowers* small, white, paniced.

1349. SECURIDACA. *Calyx* 3-leaved: *corol* papilionaceous; the banner 2-leaved, within the wings: *legume* ovate, 1-celled, 1-seeded, terminating in a ligulate wing.

erecta. Stem erect: leaves oblong.

Hispaniola. *Jacq. Amer. t.* 183. f. 39. *piet. t.* 261. f. 56.

Tree branched: *flowers* racemed, purple.

volubilis. Stem climbing: leaves oblong, acute.

South America, *Jacq. Amer. t.* 183. f. 38. *Plum. ic.* 247. f. 1.

virgata. Stem climbing: leaves roundish, very obtuse.

Hispaniola, *Plum. ic.* 248. f. 1.

ORDER IV. DECANDRIA: 10 *stamina* in 2 sets.

1350. NISSOLIA. *Calyx* 5-toothed: *legume* 1-seeded, terminating in a ligulate wing.

arborea. Stem arboreous, erect: leaves pinnate; leaflets oblong, pointed, pubescent underneath.

Carrhagena. *Jacq. Amer. t.* 174. f. 48. *piet. t.* 261. f. 60.

Branches reclined: *flowers* small, in spikes.

ferruginea. Stem shrubby, twining: leaves pinnate; leaflets oblong, pointed, ferruginous-downy underneath.

Guiana. *Aubl. Gui. 2. p.* 743. t. 297.

fruticosa. Stem shrubby, twining: leaves pinnate; leaflets ovate, acute, nearly glabrous.

Carthage. *Jacq. Amer. t. 179. f. 44. hort. t. 167.*

1351. DALBERGIA. *Calyx* obsoletely 5-toothed: *legume* foliaceous, flat, not opening: *seeds* 1 or 2.

Monetaria. Leaves ternate; leaflets glabrous, ovate: fruit oval, without veins.

Surinam. *Flowers* very minute, white, spiked.

The wood yields a resin resembling Dragon's-blood.

beterophylla Leaves ternate and pinnate; leaflets glabrous, ovate: fruit kidney-form-oval, veined.

East Indies. *Willd. sp. pl. 3. p. 901. n. 2.*

Shrub climbing, with warty branches.

arborea. Leaves pinnate; leaflets ovate, pointed, glabrous: fruit oval, acute, without veins.

East Indies. *Rheed. Mal. 6. p. 5. t. 3.*

Tree very tall: *racemes* axillary, solitary.

latifolia. Leaves pinnate; leaflets roundish, emarginate: fruit lanceolate.

Coromandel. *Roxb. Corom. 2. p. 7. t. 113.*

Tree with the leaves pubescent underneath: *corymbs* panicled, short, axillary: *legume* oblong, lanceolate.

rubiginosa. Leaves pinnate, with oblong obtuse leaflets: branches and petioles downy.

Coromandel. *Roxb. Corom. 2. p. 9. t. 115.*

Shrub climbing: *leaves* glabrous: *corol* white.

paniculata. Leaves pinnate; leaflets elliptic, emarginate, glabrous: panicle terminal: fruit lanceolate.

Coromandel. *Roxb. Corom. 2. p. 8. t. 114.*

Tree with spreading branches: *flowers* white.

lanceolaria. Leaves pinnate; leaflets oblong, hairy underneath: racemes elongated, axillary: fruit lanceolate.

Malabar; Ceylon. *Rheed. Mal. 6. p. 39. t. 22.*

Tree with pendulous branches: *flowers* ferruginous.

1352. PTEROCARPUS. *Calyx* 5-toothed: *legume* falcate, foliaceous, varicose, surrounded with a wing, not opening: *seeds* few, solitary.

Draco. Leaves pinnate, with ovate pointed leaflets: stipules oblong, obtuse: fruit obtuse.

West Indies. *Jacq. Amer. t. 183. f. 92. Anbl. Gui. 2. t. 299.*

Tree 30 feet high, with a solid white wood; the bark, when cut transversely, yielding a blood-red resin, which is the Dragon's-blood of the shops.

indicus. Leaves pinnate, with oblong pointed leaflets: stipules o: fruit acute.

East Indies. *Rumph. amb.* 2. p. 205. t. 70.

Marsupium. Leaves pinnate, with elliptic emarginate leaflets: stipules o: panicle terminal.

Coromandel. *Roxb. Corom.* 2. p. 9. t. 116.

Tree with an orange-coloured wood: flowers white.

Robriti. Leaves pinnate, with oblong-lanceolate pointed leaflets: stipules o: fruit orbicular.

Guiana. *Aubl. Gui.* 1. p. 382. t. 147.

lunatus. Leaves pinnate, with oblong obtuse leaflets: spines stipular: fruit lunate.

South America. *Plum. ic.* t. 201. f. 2.

Spines in pairs, recurved: panicle terminal, composed of incurved spikes: corol white: legume horse-shoe-shaped.

santalinus. Leaves ternate, roundish, retuse, quite glabrous: petals crenate, undulate.

Red Saynders tree.

Mountains of India. *Woodv. med. bot.* t. 254.

Tree with a deep red wood: leaflets sometimes 4 or 5, pale underneath: corol yellow with red veins.

Ecastaphyl- Leaves simple, ovate, pointed, silky underneath.

tum, South America. *Brown Jam.* t. 32. f. 1. *Plum. ic.* 246. f. 2.

Calyx ferruginous, silky: legume nearly orbicular, flat.

1353. AMERIMNUM. Calyx somewhat 2-lipped: legume compressed, foliaceous, 2-valved, gaping: seeds a few, solitary.

Ebenus. Branches spinous: leaves simple, nearly sessile, aggregate, obovate-oblong: peduncles 2-flowered.

West Indies. *Sloane Jam.* 2. t. 175. f. 1. *Brown Jam.* t. 31. f. 2.

The wood is the Ebony of the West Indies.

Brownai. Leaves simple, petioled, alternate, somewhat hearted and ovate: racemes compound, axillary and lateral.

Jamaica. *Brown Jam.* t. 31. f. 3. *Jacq. Amer.* t. 180. f. 58.

Shrub not spinous: flowers small, white, sweet.

latifolium. Leaves pinnate, with ovate pointed glabrous leaflets: stem arboreous.

Carthagera. *Jacq. Amer.* 200. t. 177. f. 50.

Shrub erect: leaflets 7: racemes axillary, solitary.

pubescens. Leaves pinnate; leaflets oblong, pointed, pubescent underneath: stem arboreous.

Caraccas. *Willd. sp. pl.* 3. p. 909. n. 4.

Tree large: leaflets 11—13: flowers small, violet.

scandens. Leaves pinnate; leaflets oblong, pointed, glabrous: stem shrubby, climbing.

Caraccas. Willd. *sp. pl.* 3. p. 909. n. 5.

Leaflets 7—11: bractes 0: flowers violet.

1354. DIPTERIX. *Calyx* with the 2 upper divisions wing-shaped: *legume* 1-celled, 1-seeded, coriaceous, 2-valved.

odorata. Leaves alternate: racemes terminal.

Guiana. Aubl. *Gui.* 2. p. 740. t. 296.

Tree 60 feet high: leaves pinnate, with oblong acute leaflets: common *petiole* lanceolate at top: *legume* fleshy, yellowish: seed highly fragrant, covered with a thin brittle shell, and is well known under the name of *Tonca Bean*.

oppositifolia Leaves opposite: flowers panicled.

Cayenne. Aubl. *Gui.* 2. p. 745. t. 298.

Tree 60 feet high: leaves pinnate, with oblong pointed leaflets: *legume* coriaceous, greenish,

1355. ABRUS. *Calyx* obsoletely 4-lobed, the upper lobe broader: *filaments* 9, united into a sheath at bottom, gaping at the back: *stigma* obtuse: *seeds* spherical.

precatorius. ABRUS.

Jamaica Wild Liquorice.

Indies. Sloane *Jam.* 1. t. 112. f. 4, 5, 6. Rheed. *Mal.* 3. t. 39.

Plant shrubby, twining: leaves pinnate, with many oblong leaflets: flowers in axillary racemes, pale purple: *legume* oblong: seeds 5 or 6, scarlet or white with a black eye, and are commonly strung into necklaces or beads.

1356. ERYTHRINA. *Calyx* 2-lipped, 1: *corol* with a very long lanceolate banner: *legume* swelling at the seeds. Coral-tree.

herbacea. Leaves ternate, rhombic, glabrous: stem herbaceous, unarmed: calyx truncate.

Carolina. Catesby *Carol.* t. 49. Dill. *elth.* t. 90. f. 106.

carnea. Leaves ternate, glabrous: stem arboreous, a little prickly: calyx campanulate, truncate.

Vera Cruz. Trew *Ehret.* t. 8. Aiton *Kew.* 3. p. 8.

Corallo-den- Leaves ternate, unarmed: stem arboreous, prickly: calyx drum. truncate, 5-toothed.

Antillys. Comm. *hort.* 1. p. 121. t. 108.

- indica.* Leaves ternate, unarmed: stem arboreous, prickly: calyx spathaceous.
E. fl. Indies. *Rumph. amb.* 2. t. 76. *Rheed. Mal.* 6. t. 7.
- fusca.* Leaves ternate, unarmed, lanceolate: stem arboreous, prickly: calyx bifid.
India; Cochinchina. *Rumph. amb.* 2. p. 235 t. 78.
- caffra.* Leaves ternate, unarmed, obtuse: stem arboreous, prickly.
The Cape. *Thunb. prodr.* 121. *Willd.* 3. p. 914.
- picata.* Leaves ternate, prickly: stem arboreous, prickly.
India *Rumph. amb.* 2. p. 234. t. 77. *Gelala alba.*
- velutina.* Leaves ternate, unarmed, pubescent: stem arboreous prickly.
Terra Firma. *Willd. act. soc. nat. berol.* 3. p. 426.
Leaves heart-triangular, obtuse, entire, pubescent.
- glauc.* Leaves ternate, unarmed, glaucous underneath: petioles nearly unarmed: stem arboreous, prickly.
Caraccas. *Willd. nov. act. soc. nat. berol.* 3. p. 428.
Flowers saffron, racemed: calyx brown, 2-lipped.
- mitis.* Leaves ternate, unarmed: stem arboreous, unarmed.
Caraccas. *Jacq. schænb.* 2. p. 47. t. 216.
Tree very tall: flowers scarlet: calyx truncate.
- isopetala.* Leaves ternate; leaflets ovate-lanceolate: petals with claws, nearly of equal length.
Brasil. *Lamarck. encycl.* 2. p. 388.
Branches climbing: calyx campanulate, 5-toothed.
- Crista galli.* Leaves ternate: petioles a little prickly and globular: stem arboreous, unarmed.
Brasil. *Jacq. obs.* 3. t. 51. *E. laurifolia.*

1357. BUTEA. Calyx slightly 2-lipped: corol with a very long lanceolate banner: legume compressed, membranaceous, 1-seeded at the tip.

- frondosa.* Branches pubescent: leaflets roundish, emarginate.
Coromandel. *Roxb. Corom.* 1. t. 21. *Rheed. Mal.* 6. t. 16, 17.
Tree with ternate leaves: racemes pendulous, red.
- superba.* Branchlets glabrous: leaflets obovate-roundish, very obtuse.
Coromandel. *Roxb. Corom.* 1. p. 23. t. 22.

1358. RUDOLPHIA. Calyx 2-lipped: corol with a very long lanceolate banner: legume flat, many-seeded.

- volubilis.* Leaves hearted, ovate, pointed, somewhat peltate.
Portorico. *Willd. nov. act. soc. nat. berol.* 3. p. 452.
Shrub twining, with a black warty bark.

- peltata.* Leaves somewhat hearted, oblong-lanceolate, peltate.
St. Domingo. *Plum. ic.* 102. f. 1. *Corallodendrum*.

1359. **WIBORGIA.** *Calyx* 5-toothed, with the cavities rounded: *legume* turgid, grooved, winged.

- obcordata.* Leaflets glabrous, obtuse: branches elongated, lax.
The Cape. *Thunb. prodr.* 121.
fusca. Leaflets glabrous, mucronate: branches wand-like, erect.
The Cape. *Thunb. prodr.* 121.
sericea. Leaflets pubescent: branches wand-like, pubescent.
The Cape. *Thunb. prodr.* 121.

1360. **PISCIDIA.** *Stigma* acute: *legume* with 4 longitudinal wings. *Jamaica Dogwood.*

- Erythrina.* Leaves unevenly pinnate, with ovate leaflets.
America. *Shane Jam 2 t.* 176. f. 45. *Plum ic.* 233.
The bark of the root, when pounded, intoxicates fish.
caribagi-nensis. Leaves unevenly pinnate, with obovate leaflets.
America. *Pluk. atm.* 293. t. 214. f. 4.
punicea. Leaves evenly pinnate; leaflets oblong, obtuse.
America. *Cavan. ic.* 4. p. 8. t. 316.
longifolia. Leaves evenly pinnate; leaflets lanceolate, acute.
New Spain. *Cavan. ic.* 4. p. 8. t. 315.
Calyx with the border inflexed: *flowers* yellow.

1361. **PLATYLOBIUM.** *Calyx* campanulate, 5-cleft; the 2 upper segments very large and obtuse: *legume* pedicelled, compressed, winged along the back, many-seeded.

- formosum.* Leaves opposite, heart-ovate with a point: germ hairy.
New Holland. *Smith New Holl.* 1. t. 6. *Curt. mag.* t. 469.
parvisflorum Leaves opposite, lance-ovate: germ hairy.
New Holland. *Smith New Holl.* 1. p. 18.
lanceolatum Leaves alternate, linear-lanceolate: germ glabrous.
New Holland. *Andrews bot. repof.* t. 205.
Scolopendrum. Leaves alternate, ovate: branches and branchlets flat, winged, toothed: germ hairy.
New Holland. *Andrews bot. repol.* t. 191.
These are all shrubs with yellow flowers.

1362. TRIGONIA. *Calyx* 5-parted: *banner* with a hollow at the base on the inside: *nectary* 2 scales at the base of the germ: some of the *filaments* barren: *capsule* leguminous, 3-sided, 3-celled, 3-valved.

- villosa*. Leaves obovate, downy and hoary underneath.
Cayenne. *Aubl. Gui.* 1. p. 388. t. 149.
- lævis*. Leaves oblong, glabrous and shining both sides.
Guiana. *Aubl. Gui.* 1. p. 390. t. 150.

1363. BORBONIA. *Stigma* emarginate: *calyx* with the divisions ending in spinous points: *legume* tipped with a spine.

- ericifolia*. Leaves nearly linear, acute, villous underneath: heads of flowers terminal.
The Cape. *Plant* villous: *leaves* nerveless.
- trinervia*. Leaves lanceolate, 3-nerved, very entire.
The Cape. *Pluk. alm.* 158. t. 297. f. 4.
- lanceolata*. Leaves lanceolate, many-nerved, very entire.
The Cape. *Jacq. schænb.* 2. t. 217. *Pluk. alm.* t. 297. f. 3.
- perfoliata*. Leaves clasping the stem, very entire, reticulate.
The Cape. *Thunb. prodr.* 122.
- cialata*. Leaves heart-shaped, clasping the stem, obtuse, many-nerved, very entire, ciliate.
The Cape. *Houtt. Linn. syst.* 8. p. 499. t. 62. f. 2.
Leaves ovate, deeply hearted: *peduncles* axillary.
- undulata*. Leaves clasping the stem, undulate, with a reflected point.
The Cape. *Thunb. prodr.* 122.
- cordata*. Leaves heart-shaped, many-nerved, very entire.
The Cape. *Jacq. schænb.* 2. t. 218.
- crenata*. Leaves heart-shaped, many-nerved, denticulate.
The Cape. *Curt. mag.* t. 274. *Breyn. cent.* t. 28.
Leaves pointed, ciliate, clasping the stem.

1364. ACHYRONIA. *Calyx* 5-toothed; the lower tooth elongated and cloven: *legume* compressed, many-seeded.

- villosa*. ACHYRONIA.
New Holland. *Wendl. hort. herrenhus.* 1. p. 16. t. 12.
Shrub with long scattered silky hairs: *leaves* lanceolate, acute, entire, with long silky hairs round the margin: *peduncles* axillary, 1-flowered: *calyx* villous: *corol* yellow.

1365. CEDMANNIA. *Calyx* 2-lipped; the upper lip cloven, lower-lip fetaceous.

OEDMANNIA.

The Cape. *Thunb. aq. Holm.* 1800. p. 281. t. 4.

Stem somewhat herbaceous, ascending, glabrous, brown: *leaves* lanceolate, entire, glabrous: *peduncles* 1-flowered.

1366. SPARTIUM. *Stigma* longitudinal, villous above: *filaments* all united, adhering to the germ: *calyx* produced downwards. *Broom.*

A. *Leaves* simple.

lanceum. Branches opposite, round, flowering at top: leaves lanceolate.

Italy; Sicily. *Curt. mag.* t. 85. *Reuealm. spec.* t. 33.

aphyllum. Branches round, stiff, glabrous, wand-like; each supported by a single very short linear leaf.

Russia. *Pall. it.* 3. *app. n.* 106. t. V. f. 2.

Leaves none, except a single stipule-like one at each ramification: *flowers* small, pedicelled, violet.

monospermum. Branches round, striate: racemes lateral, few-flowered: flowers somewhat aggregate: leaves lanceolate, silky, Spain. *Park. theat.* 232. f. 14. Flowers white.

sphaerocarpon. Branches round, striate: racemes lateral, many-flowered; flowers remote: leaves lanceolate, sessile, pubescent underneath.

South of Europe. *Park. theat.* 231. f. 13. Flowers yellow.

cinereum. Branches round, 10-grooved: flowers axillary, solitary, pubescent: leaves lanceolate, sessile, silky.

South of Europe. *Villars prospect.* 40.

Branches green, with 10 white striæ: *peduncles* short.

virgatum. Branches round, striate: flowers axillary, solitary, somewhat racemed: banner and keel pubescent: leaves oblong-lanceolate, silky.

Madeira. *Jacq. ic. rar.* 1. t. 147. *Cytisus tener.*

ramosissimum. Branches round, grooved, stiff: flowers axillary, 2 or 3 together: banner and keel hairy: leaves lanceolate, alternate and fascicled, hairy.

Barbary. *Desfont. atl.* 2. p. 132. t. 178.

purgans. Branches round, striate: flowers axillary, solitary: leaves lanceolate, silky, nearly sessile.

Montpellier. *Bulliard. Herb.* t. 115. *Genista.*

Legume ovate, pendulous, sinuate on one side.

umbellatum. Branches round, striate: flowers in terminal heads: leaves linear-lanceolate, silky.

Barbary. *Desfont. atl. 2. p. 133. t. 180.*

Leaves rarely ternate: corol silky.

Scorpius. Branches round, striate, spreading, spinous: peduncles axillary, many flowered: leaves oblong, acute, silky.

Spain. *Shrub* covered over with alternate spines.

apalathoides. Branches angular, tubercled, spinous: peduncles axillary, 1 flowered: leaves lanceolate, silky.

Barbary. *Desfont. atl. 2. p. 136.*

B. *Leaves ternate.*

multiflorum. Leaves ternate and single, silky: shoots stiff, striate, flowering on every side.

Portugal. *Willd. bot. mag. 4. t. 2. L'Herit. stirp. nov. t. 87.*

angulatum. Leaves ternate and single, linear-lanceolate, hoary: branches 6-angled, flowering at top.

The East. *Flowers* yellow, in loose spikes.

persicum. Leaves ternate, linear-lanceolate, petioled: branches round, divaricate: flowers lateral, solitary, drooping.

Persia. *Burm. Ind. 163. t. 51. f. 1. Cytisus.*

patens. Leaves ternate, obovate, petioled: branches round, striate: flowers lateral, in pairs; nodding.

Spain; Portugal. *Cavan. ic. 2 p. 58. t. 176.*

Leaves pubescent underneath: flowers deep yellow.

nubigenum. Leaves ternate, lanceolate, hairy, petioled: flowers lateral, fascicled: legumes glabrous: branches round, striate.

Teneriffe. *Flowers* very copious, white, odorous.

biflorum. Leaves ternate, linear wedge-form, petioled: flowers terminal, single or in pairs: legumes glabrous: branches angular.

Barbary. *Desfont. atl. 2. p. 133. t. 179.*

linifolium. Leaves ternate, sessile, linear, silky underneath: raceme terminal: branches round, grooved.

Genista linifolia. *Sp. pl. 405. Curt. mag. t. 442.*

South of Europe. *Desfont. atl. 2. p. 134. t. 181.*

**scoparium.* Leaves ternate and single, oblong: flowers axillary: legumes hairy at the edge: branches angular.

Dry fields. *Curt. Lond. fasc. 5. t. 52. Woodw. t. 89. Blackw. 344.*

arborcum. Leaves ternate, obovate: flowers axillary: legumes villous: branches round, grooved.

Barbary. *Desfont. atl. 2. p. 131. t. 177.*

- radiatum.* Leaves ternate, linear: petioles dilated, permanent: racemes forming terminal heads: branches angular, opposite, crowded.
Italy. *Mill. fig. t. 249. f. 1. Col. ecphr. 1. t. 293.*
Branches square: petioles very short, 3-sided, gibbous.
- ferox.* Leaves ternate and single, oblong, mucronate: raceme terminal: branches striate, round, spinose.
Barbary. *Desfont. atl. 2. p. 136. t. 182.*
- spinosum.* Leaves ternate, obovate: peduncles axillary: calyx and legumes glabrous: branches angular, spinous.
Italy; Spain; Barbary. *Park. theat. 999. f. 4.*
- villosum.* Leaves ternate, oblong-obovate: peduncles axillary: calyx and legumes villous: branches angular, spinous.
Barbary; Crete. *Vahl. symb. 2. p. 80.*
- horridum.* Leaves ternate, linear, complicate: flowers terminal, single or in pairs: branches opposite, angular, spinous.
Spain. *Vahl. symb. 1. p. 51.* Branches 6-grooved.

1367. GENISTA. Calyx 2-lipped, with 2 shorter teeth above and 3 longer ones beneath: banner oblong, reflected back by the pistil and stamina. *Green-weed.*

A. Without spines.

- canariensis.* Leaves ternate, oblong, pubescent underneath with spreading hairs: peduncles terminal, many-flowered: branches angular.
Spain; Canaries. *Comm. hort. 2. t. 52. Seba thes. t. 4. f. 6, 7.*
Calyx 3-cleft, the lowest 3-toothed: flowers fragrant.
- candicans.* Leaves ternate, obovate, pubescent with appressed hairs: peduncles many-flowered, terminal: branches angular.
Italy; Montpellier. *Flowers* not fragrant.
- viscosa.* Leaves ternate, oblong, glabrous: raceme terminal: calyx and legumes glandular-viscid: branches round, striate.
Canarie ? *Willd. sp. pl. 3. p. 938. n. 3.*
Calyx and legume covered with pedicelled glands.
- triquetra.* Leaves ternate; the upper-ones single: branches 3-sided, procumbent.
Corfica. *Curt. mag. t. 314.* Leaves ovate, hairy.
- sagittalis.* Branches jointed, with 2 membranaceous edges: leaves ovate-lanceolate.
Germany. *Mill. fig. 259. f. 2. Jacq. Aufz. t. 209.*
Leaves hairy both sides: legume black, 4-seeded.

- tridentata*. Branches somewhat jointed, with 3 membranaceous edges: leaves tricuspidate.
Portugal. *Legumes* white-woolly.
- triangularis*. Leaves lanceolate, mucronate, glabrous: branches 3-sided, ascending: legumes glabrous.
Banatu. *Waldst. pl. rar. Hung.*
- *tinctoria*. Leaves lanceolate, glabrous: branches round, striate, erect: legumes glabrous.
Pastures. *Eng. bot. t. 44. Fl. Dan. t. 526.*
- ovata*. Leaves oblong-ovate, hairy: legumes hairy: branches round, striate.
Sclavonia. *Waldst. pl. rar. Hung.* Branches hairy.
- sibirica*. Leaves lanceolate, glabrous: branches equal, round, erect.
Siberia. *Jacq. hort. t. 190.* Stems not striate or villous.
- florida*. Leaves lanceolate, filky: branches round, striate: racemes leaning one way.
Spain. *Leaves* small, alternate.
- procumbens*. Leaves lanceolate, acute: peduncles axillary, 3 together, longer than the leaves: corols glabrous: branches round, striate.
Hungary. *Waldst. Kitaib. pl. rar. Hung.*
Branches procumbent, pubescent: leaves acute.
- decumbens*. Leaves lanceolate, obtuse with a point, filky underneath: peduncles axillary, as long as the leaves: corols filky: branches angular.
France; Switzerland. *Aiton Kew. 3. p. 11. Spartium.*
- *pilosa*. Leaves lanceolate, fascicled, filky underneath: peduncles axillary, very short: corols hairy: stem tubercled, striate, procumbent.
Dry heaths. *Eng. bot. t. 208. Jacq. Austr. t. 208.*
- humifusa*. Leaves lanceolate, flat, hairy both sides: peduncles axillary, very short: corols filky: stem tubercled, striate, procumbent.
The East. *Leaves* flat, acute, very hairy both sides.
- albida*. Leaves lanceolate, whitish-villous: flowers axillary, sessile: corols villous: stem grooved, procumbent.
Tauria. *Willd. sp. pl. 3. p. 942. n. 16.*
- diffusa*. Leaves lanceolate, glabrous, slightly ciliate: peduncles axillary: corols glabrous: branches 3-sided, procumbent.
Styria. *Jacq. ic. rar. 3. t. 555. Spartium decumbens.*
- sericea*. Leaves lanceolate, filky underneath: flowers terminal, somewhat racemed: corols filky: branches erect, round.
Austria. *Jacq. ic. rar. 3. p. 556. Peduncles* one way.

B. Spinous.

- anglica.* Spines simple or compound; flowering branches unarmed: leaves oblong, glabrous: racemes leafy: corols glabrous.
Heaths. *Eng. bot.* t. 132. *Fl. Dan.* t. 619.
- germanica.* Spines compound; flowering branches unarmed: leaves lanceolate, hairy: racemes leafless: keel of the corol pubescent.
Germany. *Spines* strong, thick, compound.
- sylvestris.* Spines branched, not pungent, flexible: leaves linear-lanceolate, silky underneath: raceme terminal, elongated.
Carniola. *Jacq. ic. rar.* 3. t. 557. *G. hispanica.*
- hispanica.* Spines compound, pungent: leaves lanceolate, villous: raceme terminal, nearly forming a head.
Spain. *Cavan. ic.* 3. p. 6. t. 211.
- hirsuta.* Spines trifid, striate: leaves lanceolate, hairy: branches hairy: spikes terminal: corols hairy.
Spain; Portugal. *Vabl. symb.* 1. p. 51.
- tricuspidata.* Spines trifid, angular: leaves lanceolate, glabrous: branches glabrous: raceme terminal: corol glabrous.
Barbary. *Desfont. atl.* 2. p. 138. t. 183.
- lusitanica.* Stem leafless: spines decussate.
Spain; Portugal. *Leaves* linear, caducous.

1368. LEBECKIA. *Calyx* 5-parted, with acute divisions and rounded cavities: *legume* cylindrical, many-seeded.

- contaminata.* Leaves simple, linear-filiform, glabrous: flowers umbelled.
Spartium contaminatum. *Mant.* 268.
The Cape. *Leaves* cylindrical, flattish above, purple at the base: *flowers* fulvous, with the keel yellow.
- sepiaria.* Leaves simple, filiform, glabrous: flowers racemed.
Spartium sepiarium. *Sp. pl.* 995. *Amæn. acad.* 6.
The Cape. *Pluk. mant.* t. 424. f. 1. *Pet. gaz.* t. 183. f. 3.
- pungens.* Leaves simple, obovate: branches and branchlets spinescent, downy: flowers solitary.
The Cape. *Thunb. prodr.* 122.
- armata.* Leaves ternate: branches spinescent, round, cinereous: flowers racemed.
The Cape. *Thunb. prodr.* 122.

- densa.* Leaves ternate, villous; leaflets convolute, oblong: flowers racemed, remote.
The Cape. *Thunb. prodr.* 122.
- humilis.* Leaves ternate, villous; leaflets linear-oblong: flowers racemed, reflected: branches incurved.
The Cape. *Thunb. prodr.* 122.
- sericea.* Leaves ternate, silky; leaflets linear: flowers racemed.
The Cape. *Aiton Kew.* 3. p. 12. Spartium.
- cytisoides.* Leaves ternate, villous: raceme long, terminal.
Spartium cytisoides. *Linn. suppl.* 320.
The Cape. Branches pubescent, silky: flowers reddish.

1369. RAFNIA. *Calyx* ringent; the upper lip bifid; lower lip divaricately trifid, with the middle tooth narrower: *legume* lanceolate, compressed.

- perfoliata.* Leaves perfoliate, heart-ovate: peduncles axillary, 1-flowered.
Crotalaria perfoliata. *Sp. pl.* 1003.
Carolina. *Dill. elib.* t. 102. f. 122. Crotalaria.
- amplexicaulis.* Leaves clasping the stem, orbicular; those of the stem alternate; floral ones opposite, and coloured.
Crotalaria amplexicaulis. *Sp. pl.* 1003.
The Cape. *Seba thes.* 1. t. 24. f. 5. Genista.
- elliptica.* Leaves ovate-elliptic, acute; those of the stem alternate, floral ones opposite.
The Cape. *Andrews bot. repof.* t. 31? Borbonia.
- cuneifolia.* Leaves wedge-obovate: branches angular: flowers terminal.
The Cape. *Thunb. prodr.* 123.
- triflora.* Leaves ovate, glabrous: branches angular: peduncles 3 together, 1-flowered.
Crotalaria triflora. *Sp. pl.* 1004. *Curt. mag.* t. 482.
The Cape. Bractes as long as the flowers.
- opposita.* Leaves lanceolate, alternate: peduncles lateral.
Spartium capense. *Sp. pl.* 995. Crotalaria. *Linn. suppl.*
The Cape. Peduncles elongated.
- axillaris.* Leaves lanceolate, alternate and opposite: flowers terminal.
The Cape. *Thunb. prodr.* 123.
- angulata.* Leaves lanceolate, alternate: peduncles axillary: stem angular.
The Cape. *Thunb. prodr.* 123.

- spicata*, Leaves lanceolate, alternate: flowers axillary, racemed.
The Cape. *Thunb. prodr.* 123.
- angustifolia* Leaves lanceolate, alternate: peduncles lateral: stem round.
The Cape. *Thunb. prodr.* 123.
- filifolia*. Leaves linear-lanceolate, alternate: flowers axillary.
The Cape. *Thunb. prodr.* 123.
- retroflexa*. Leaves obovate: branches reflected and retroflected.
The Cape. *Thunb. prodr.* 123.
- spicata*. Leaves oblong: flowers lateral: stem erect.
The Cape. *Thunb. prodr.* 123.
- diffusa*. Leaves ovate, glabrous: stem decumbent.
The Cape. *Thunb. prodr.* 123.

1370. ASPALATHUS. *Calyx* 5-cleft, the upper division larger: *legume* ovate, awnless, 1 or 2-seeded.

- spinosa*, Leaves fascicled, linear, glabrous: flowers axillary: buds spinous.
The Cape. *Breyn. cent. t.* 26. *Pluk. phyt.* 297. f. 6.
Flowers lateral, hardly longer than the leaves.
- aculeata*. Leaves fascicled, linear, hairy: flowers in heads: buds prickly.
The Cape. *Thunb. prodr.* 128.
- spinescens*. Leaves fascicled, fleshy, glabrous: flowers lateral: branches spinescent.
The Cape. *Thunb. prodr.* 129.
- pungens*. Leaves fascicled, subulate: flowers lateral: branches and branchlets spinescent.
The Cape. *Thunb. prodr.* 129.
- verrucosa*. Leaves fascicled, filiform, mucronate, incurved, glabrous: flowers lateral.
The Cape. *Leaves* fleshy: *buds* warty.
- capitata*. Leaves fascicled, triangular, mucronate, hairy: heads of flowers glabrous.
2. Lerves linear, incurved. *A. glomerata*. *Linn. suppl.* 321.
The Cape. *Pluk. phyt.* 397. f. 6. *Seba mus.* 1. t. 23. f. 6.
Segments of the *calyx* subulate, in 2) ovate.
- astroites*. Leaves fascicled, subulate, reflected, glabrous: flowers lateral.
The Cape. *Pluk. mant. t.* 413. f. 2. *Seba mus.* 1. t. 24. f. 6.

- chenopoda.* Leaves fascicled, triangular, mucronate, rigid, hairy: heads of flowers hairy.
The Cape. *Breyn. cent. t. 11. Seba mus. 1. t. 23. f. 4.*
- albens.* Leaves fascicled, filiform, silvery, not pungent: racemes leafy: corols glabrous.
The Cape. *Calyx pubescent: corol white.*
- armata.* Leaves fascicled, filiform, silvery, mucronate: racemes leafless: corols downy.
The Cape. *Thunb. prodr. 126.*
- Hystrix.* Leaves fascicled, filiform, silky, mucronate: flowers lateral, sessile.
The Cape. *Leaves resembling white silky spines.*
- incurva.* Leaves fascicled, subulate, hairy: flowers lateral.
The Cape. *Thunb. prodr. 127.*
- spicata.* Leaves fascicled, subulate, a little hairy: flowers in spikes.
The Cape. *Thunb. prodr. 127.*
- thymifolia.* Leaves fascicled, filiform-subulate, hairy: flowers lateral: branches incurved.
The Cape. *Pluk. mant. 88. t. 413. f. 1. Genista.*
- ericifolia.* Leaves fascicled, filiform, obtuse, hairy: flowers somewhat racemed.
The Cape. *Pluk. mant. 88. t. 413. f. 6.*
- bispida.* Leaves fascicled, filiform, obtuse, bristly-hairy: flowers axillary: divisions of the calyx shorter than the flower.
The Cape. *Thunb. prodr. 127.*
- flexuosa.* Leaves fascicled, filiform, obtuse, bristly-hairy: flowers axillary: divisions of the calyx longer than the flower.
The Cape. *Thunb. prodr. 127.*
- parviflora.* Leaves fascicled, filiform, pubescent: flowers terminal, 3 together.
The Cape. *Thunb. prodr. 127.*
- incompta.* Leaves fascicled, filiform, obtuse, silky: flowers lateral.
The Cape. *Thunb. prodr. 127.*
- asparagoides.* Leaves fascicled, triangular, mucronate, hairy: flowers lateral.
The Cape. *Flowers solitary, sessile.*
- nigra.* Leaves fascicled, filiform, glabrous: spikes ovate.
The Cape. *Leaves rather obtuse, sometimes pubescent.*
- multiflora.* Leaves fascicled, round, glabrous: flowers somewhat spiked: calyxes without bractes.
The Cape. *Thunb. prodr. 128.*
- pinguis.* Leaves fascicled, fleshy, triangular, glabrous: flowers lateral.
The Cape. *Thunb. prodr. 127.*

- carnosa*. Leaves fascicled, fleshy, round, glabrous: flowers lateral and terminal: calyxes with bractes.
The Cape. *Leaves* incurved, obtuse: *corol* yellow.
- affinis*. Leaves fascicled, fleshy, round, glabrous: flowers lateral, without bractes, yellow: branches wand-like.
The Cape. *Thunb. prodr.* 127.
- sanguinea*. Leaves fascicled, fleshy, round, glabrous: flowers lateral, without bractes, red: branches fastigate.
The Cape. *Thunb. prodr.* 127.
- laetia*. Leaves fascicled, filiform, glabrous: flowers lateral, without bractes.
The Cape. *Thunb. prodr.* 127.
- ciliaris*. Leaves fascicled, rough, somewhat hairy: heads of flowers terminal.
The Cape. *Leaves* ciliate: *calyx* with spinous teeth.
- genistoides*. Leaves fascicled, filiform, glabrous: racemes terminal.
The Cape. *Calyx* glabrous: *corol* glabrous, yellow.
- squarrosa*. Leaves fascicled, filiform, reflected, glabrous: flowers solitary, terminal.
The Cape. *Thunb. prodr.* 128.
- galioides*. Leaves fascicled, subulate, glabrous: flowers in pairs, terminal.
The Cape. *Calyx* with its teeth as long as the corol.
- pedunculata*. Leaves fascicled, filiform, mucronate, glabrous: flowers single or in pairs, on peduncles twice as long as the corol.
As. bracteata. *Thunb. prodr.* 128. *Willd.* 3. p. 960.
The Cape. *Curt. mag.* t. 344. *L'Herit. fert. Angl.* t. 26.
- retroflexa*. Leaves fascicled, subulate, glabrous: branchlets reflected back: flowers terminal.
The Cape. *Thunb. prodr.* 128. Flowers solitary.
- vulnerans*. Leaves fascicled, filiform, mucronate, spreading, glabrous: flowers lateral.
The Cape. *Pluk. mant.* t. 414. f. 7. *Genista*.
- pinia*. Leaves fascicled, filiform, mucronate, erect, glabrous: flowers lateral, comose.
The Cape. *Thunb. prodr.* 128.
- divaricata*. Leaves fascicled, round, mucronate, glabrous: flowers in terminal racemes.
The Cape. *Thunb. prodr.* 128.
- subulata*. Leaves fascicled, triangular, mucronate, glabrous.
The Cape. *Thunb. prodr.* 128.

laricifolia. Leaves fascicled, round, mucronate, glabrous: flowers lateral, woolly.

The Cape. *Thunb. prodr.* 128.

juniperina. Leaves fascicled, round, mucronate, glabrous: flowers terminal, glabrous.

The Cape. *Thunb. prodr.* 128.

abietina. Leaves fascicled, filiform, spinous, glabrous: flowers lateral: branches striate.

The Cape. *Thunb. prodr.* 128.

trigona. Leaves fascicled, triangular, mucronate, glabrous: flowers lateral.

The Cape. *Thunb. prodr.* 128.

araneosa. Leaves fascicled, filiform, lax, hairy: heads of flowers hairy.

The Cape. *Pluk. mant. t. 414. f. 4. Soba thes. 1. t. 23. f. 6.*

Leaves with long tawny hairs and tubercled.

comosa. Leaves fascicled, filiform, hairy: flowers lateral, comose.

The Cape. *Thunb. prodr.* 126.

cephalotes. Leaves fascicled, filiform, obtuse, somewhat villous: heads of flowers hairy.

The Cape. *Thunb. prodr.* 126.

triangula. Leaves fascicled, triangular, obtuse, hairy, rugged: heads of flowers terminal.

The Cape. *Thunb. prodr.* 127.

canescens. Leaves fascicled, filiform, silky, mucronate: flowers terminal, with their banners downy.

The Cape. Leaves and banner downy hoary.

indica. Leaves 5 together, sessile: peduncles 1-flowered.

India. *Pluk. alm. t. 201 f. 2. Rheed. Mal. 9. t. 37.*

quincusfolia. Leaves 3 together and fascicled: heads of flowers hairy: corols glabrous.

The Cape. *Pluk. alm. t. 278. f. 4. Cytisus.*

heterophylla. Leaves 3 together and fascicled, hairy: flowers spiked.

The Cape. Calyx and corol villous.

tridentata. Leaves in threes, lanceolate, villous: stipules prickly, trifid.

The Cape. Flowers in heads.

lotoiaes. Leaves in threes, lanceolate, villous: buds unarmed: corols downy.

The Cape. *Thunb. prodr.* 126.

pilosa. Leaves in threes, linear, villous: heads terminal, very hairy: corols pubescent.

The Cape. Bractes and calyxes with white hairs.

- obtusata.* Leaves in threes, obovate, obtuse: flowers axillary, solitary.
The Cape. *Thunb. prodr.* 125.
- sericea.* Leaves in threes, oblong, silky: racemes terminal.
The Cape. *Leaves* flat: *corols* glabrous.
- cinerea.* Leaves in threes, oblong, flat, acute, downy: heads of flowers terminal.
The Cape. *Thunb. prodr.* 125.
- anthylloides* Leaves in threes, ovate: heads terminal.
The Cape. *Leaves* pubescent: *heads* oblong?
- laxata:* Leaves in threes, linear, villous: flowers fascicled, 5 together: calyx woolly: stems prostrate, round.
The Cape. *Leaves* lax: *flowers* terminal, sessile.
- argentea.* Leaves in threes and fascicled, ovate, silky: heads downy: stem forked.
The Cape. *Plant* silky: *flowers* spiked, lateral.
- virgata.* Leaves in threes and fascicled, ovate, silky: heads hairy: stem wand-like.
The Cape. *Thunb. prodr.* 126.
- rubens.* Leaves fascicled, subulate, silky: flowers silky.
The Cape. *Thunb. prodr.* 126.
- nivea.* Leaves fascicled, linear, silvery: flowers solitary.
The Cape. *Thunb. prodr.* 126.
- callosa.* Leaves in threes, triangular, glabrous: spikes ovate.
The Cape. *Pluk. mant.* t. 345, f. 4. *Cytisus.*
Plant glabrous: *spikes* lax, terminal, yellow.
- acuminata.* Leaves in threes, ovate, obtuse: branches and branchlets spinescent.
The Cape. *Thunb. prodr.* 125.
- rugosa.* Leaves in threes, elliptic, wrinkled, glabrous: umbels terminal.
The Cape. *Thunb. prodr.* 125.
- fusca.* Leaves in threes, lanceolate, glabrous: branches glabrous: flowers terminal.
The Cape. *Thunb. prodr.* 125.
- orientalis.* Leaves in threes, lanceolate, pubescent: flowers fascicled, 5 together: calyx pubescent: stems erect, angular.
The East. *Leaves* sessile, linear-lanceolate, pointed.
- mucronata.* Leaves ternate, lanceolate, obtuse: branches spinescent.
The Cape. *Plant* glabrous: *racemes* terminal, erect.
- pinnata.* Leaves pinnate, with 5 obovate leaflets downy underneath: peduncles forming heads.
The Cape. *Peauncles* longer than the leaves.

- arborea.* Leaves pinnate, with 5 ovate glabrous leaflets: racemes terminal: stem arboreous.
Cochinchina. *Lour. Cochinch.* 431.
 Tree with weak reclining branches: flowers white.

1371. **SARCOPHYLLUM.** *Calyx* campanulate, 5-parted, regular: *legume* scymitar-shaped, acute.

- carnosum.* **SARCOPHYLLUM.**
 The Cape. *Thunb. prodr.* 125. *Willd.* 3. p. 968.

1372. **ULEX.** *Calyx* 2-leaved: *legume* hardly longer than the calyx. *Furze. Gorse. Whin.*

- **europæus.* *Calyx* with obsolete connivent teeth: bractes ovate, lax: branchlets erect.
 Commons. *Eng. bot. t.* 742. *Flor. Dan. t.* 608.
 **nanus.* *Calyx* with lanceolate distant teeth: bractes minute, appressed: branchlets decumbent.
 Elevated commons. *Eng. bot. tab.* 743-

1373. **AMORPHA.** *Calyx* campanulate, 5-cleft: banner ovate, concave: wings and keel none: *legume* falcate, 2-seeded. *Bastard Indigo.*

- fruticosa.* *Calyx* with 4 obtuse teeth, and a pointed one.
 2. *Calyxes* hoary: leaflets emarginate. *Willd.* 3. p. 970.
Carolina. *Hort. cliff. t.* 19. *Mill. fig. t.* 27.
Shrub with pinnate leaves: flowers purple.
pubescens. *Calyx* with all the teeth pointed.
Carolina. *Willd. sp. pl.* 3. p. 970. *Willd. arb.* 17:
Herb hoary pubescent: flowers blueish-white.

1374. **DIMORPHA.** *Calyx* 3 or 4-cleft: banner very large, crenulate: wings and keel none: *legume* 1-seeded, compressed, large.

- grandiflora.* Leaves evenly pinnate: *legume* glabrous.
Guiana. *Aubl. Gui.* 2. p. 757. t. 303. *Parivoa.*
Tree 30 feet high: *legume* oblong, acute.
tomentosa. Leaves ternate and unevenly pinnate: *legume* downy.
Guiana. *Aubl. Gui.* 2. p. 759. t. 304. *Parivoa.*
Tree 20 feet high: *legume* obovate, obtuse.

1375. TETRAMNUS. *Keel* very minute, concealed in the calyx: *stamina* alternately barren and fertile: *stigma* sessile, capitate.

volubilis. Leaflets ovate-lanceolate, pubescent.

Dolichos uncinatus. *Sp. pl.* 1019.

Jamaica. *Plum. spec.* 8. *ic.* 221. *Phaseolus.*

Shrub twining: *legumes* hooked at the end.

uncinatus. Leaflets oblong, silky underneath.

Jamaica. *Swartz prodr.* 105. *Willd.* 3. *p.* 972.

1376. BOSSIÆA. *Calyx* 2-lipped, the upper-lip inversely heart-shaped: *banner* with 2 glands at the base: *keel* of 2 petals: *legume* pedicelled, compressed, many-seeded.

beterophylla BOSSIÆA.

New Holland. *Ventenat. descript. pl. nov.* 1. *t.* 7.

Shrub with glabrous leaves; the lower-ones elliptic, upper-ones lanceolate: *peduncles* 1-flowered, axillary.

1377. CROTALARIA. *Legume* turgid, inflated, pedicelled: *filaments* united, with a fissure down the back.

A. *Leaves* simple.

sagittalis. Leaves simple, oblong-lanceolate: stipules lanceolate, pointed, decurrent: racemes opposite the leaves.

Jamaica. *Pluk. alm. t.* 169. *f.* 6. 2) *t.* 277. *f.* 2.

parviflora. Leaves simple, lanceolate: upper-stipules only decurrent, with 2 very short teeth: racemes opposite the leaves.

Carolina. *Rotb. Catalpæ.* 1. *p.* 83. 2. *p.* 84.

rubiginosa. Leaves simple, lanceolate, villous: upper-stipules lanceolate, decurrent: racemes opposite the leaves: calyxes villous.

East Indies. *Willd. sp. pl.* 3. *p.* 973. *n.* 3.

Calyx covered with ferruginous hairs: *corol* yellow.

chinensis. Leaves simple, ovate, slightly petioled: stipules very minute, subulate.

China. *Calyx* hairy, as long as the corol.

glauca. Leaves simple, linear-lanceolate, glabrous: peduncles axillary, 2 or 3-flowered.

Guinea. *Willd. sp. pl.* 3. *p.* 974. *n.* 5.

Leaves glaucous: *peduncles* 1—4-flowered.

- junceae*, Leaves simple, lanceolate, nearly sessile: legumes glabrous: raceme terminal: stem grooved.
East Indies. *Curt. mag. t. 490. Trew. Ebrēt. t. 47.*
Plant hoary: stems rush-like, branched at the base.
- sericea*, Leaves simple, lanceolate, silky underneath: legumes silky: raceme terminal: stem grooved.
East Indies. *Retz. obs 5. p. 26.* Stipules half hearted.
- linifolia*, Leaves linear, silky, obtuse, mucronate: raceme terminal: legumes glabrous, hardly larger than the calyx: stem slightly striate.
East Indies. Stems simple, hairy and hoary.
- imbricata*, Leaves simple, oblong, silky-shining: flowers axillary, sessile: branches flowering at top.
The Cape. *Pluk. mant. 63. t. 388. f. 3.*
- parviflora*, Leaves ovate, acute, downy: flowers axillary, nearly sessile: legumes ovate.
The Cape. *Thunb. prodr. 124.*
- lanata*, Leaves ovate, acute, woolly: flowers axillary, nearly sessile.
The Cape. *Thunb. prodr. 124.*
- reflexa*, Leaves ovate, acute, downy, reflected: flowers in heads: branches bent back.
The Cape. *Thunb. prodr. 125.*
- retusa*, Leaves simple, oblong, wedge-form, retuse: raceme terminal.
India. *Rumph. amb. 5. t. 96. f. 1. Rheed. Mal. 9. t. 25.*
Leaves obovate, with a recurved point.
- sessiflora*, Leaves simple, lanceolate, nearly sessile: flowers sessile, lateral: stem equal.
China. Stem striate: leaves hairy underneath.
- verrucosa*, Leaves simple, ovate, retuse: stipules lunate, declined: raceme terminal: branches square.
India. *Cavan. is. 4. t. 321. Jacq. ic. rar. 1. t. 144.*
- semperflorens*, Leaves simple, ovate, emarginate: stipules lunate, declined: raceme terminal: branches round, striate.
East Indies. *Ventenat. descr. pl. nov. t. 17.*
- hirsuta*, Leaves simple, ovate, acute: stipules subulate, reflected: raceme nearly terminal: legumes hairy: stem hairy.
East Indies. *Willd. sp. pl. 3. p. 978, n. 17.*
- biflora*, Leaves simple, oblong, obtuse, hairy: stems prostrate, herbaceous: peduncles axillary, 2 or 3-flowered.
St. John's. *Burm. Ind. t. 48. f. 2. Pet. gaz. t. 30. f. 10.*

- Nummularia*. Leaves simple, roundish-ovate or lanceolate, obtuse, hairy underneath: peduncles axillary, 1 or 2-flowered: stem procumbent.
East Indies. *Willd.* 3. p. 979. Legumes obtuse, hairy.
- bifaria*. Leaves simple; the lower ones orbicular, upper ones ovate-lanceolate: stipules reflected: peduncles terminal, 1-flowered.
Tanjour. *Leaves* pointing 2 ways: *legume* pointed.
- paniculata*. Leaves oblong, obtuse, silky-villous: stipules linear, reflected: panicle terminal, bracted.
Malabar; Java. *Branches* with glandular hairs.

B. *Leaves compound.*

- lotifolia*. Leaves ternate; leaflets wedge-form, emarginate, silky-villous underneath: peduncles axillary, solitary, 1-flowered.
Jamaica. *Sloane Jam.* 2. t. 176. f. 1, 2. *Dill. elth.* t. 102. f. 121.
Plant glabrous: *legumes* sessile in the calyx.
- pubera*. Leaves ternate; leaflets oblong, obtuse, villous underneath: legumes and racemes villous.
St. Martha's Island. *Vahl. eclog.* 2. p. 55.
Stipules subulate: *racemes* axillary and terminal.
- argentea*. Leaves ternate, lanceolate, hoary: peduncles 1-flowered, nearly terminal, opposite the leaves.
The Cape. *Jacq. hort. schænb.* 2. p. 50. t. 220.
Shrub with hoary flexuous branches.
- lunaris*. Leaves ternate, ovate, acute: stipules half heart-shaped, lunate.
Africa. *Leaves* whitish villous underneath.
- laburnifolia*. Leaves ternate, ovate, pointed, glabrous: stipules none: raceme terminal: legumes pedicelled, pendulous.
Asia. *Herm. lugdb.* t. 197. *Rheed. Mal.* 9. t. 27.
Plant glabrous: *legume* peduncled in the calyx.
- macrophylla*. Leaves ternate, oblong-ovate, pubescent underneath: racemes axillary, aggregate, shorter than the petiole.
East Indies. *Willd.* 3. p. 982. Legume oblong, acute.
- lævigata*. Leaves ternate, oblong, glabrous: racemes lateral, about 3 flowered: legumes pedicelled.
Madagascar. *Lamarck encycl.* 2. p. 197.
- Trifoliarium*. Leaves ternate, wedge-shaped, emarginate, shorter than the common petiole: racemes terminal.
East Indies. *Willd.* 3. p. 983. Legume short, roundish,

- cordifolia*. Leaves ternate, inversely heart-shaped, mucronate: flowers most: corymbed: stem shrubby: The Cape. Leaves glabrous: stipules setaceous.
- pilosa*. Leaves ternate, hairy, mucronate: spikes terminal. The Cape. *Thunb. prodr.* 125.
- villora*. Leaves ternate, villous, obtuse: spikes terminal. The Cape. *Thunb. prodr.* 125.
- axillaris*. Leaves ternate, oblong-lanceolate, acute, silky-hairy underneath: stipules lance-subulate: peduncles axillary, in pairs, 1-flowered. Guinea. *Aiton Kew.* 3. p. 20. *Willd.* 3. p. 984. Branches grooved: stipules and legumes hairy.
- incanescens*. Leaves ternate, obovate: stipules leaf-like, petioled: racemes terminal: legumes pedicelled. The Cape. *Jacq. hort.* 3. t. 64. *C. capensis*. Stem hoary: common petiole as long as the leaves.
- incana*. Leaves ternate, oval, villous underneath: racemes spike-like: keel downy on the margin: legumes sessile, hairy. Jamaica. *Sloane Jam.* 2. t. 179. f. 1. *Cavan. ic.* 4. t. 322.
- pallida*. Leaves ternate, lanceolate, glabrous: racemes terminal, spike-like. Africa. *Aiton Kew.* 3. p. 20.
- longifolia*. Leaves ternate, lanceolate: peduncles axillary, aggregate, 1-flowered: legumes square. Guiana. *Aubl. Gui.* 2. p. 761. t. 305. *C. guianensis*. Leaves obtuse, mucronate, glabrous, lanceolate.
- angustifolia*. Leaves ternate, lanceolate, hoary, silky, shorter than the petiole: raceme terminal. The Cape. *Jacq. hort. schænb.* 2. p. 49. t. 219.
- lineata*. Leaves ternate, downy and nerved underneath: stem decumbent. The Cape. *Thunb. prodr.* 125.
- genistioides*. Leaves ternate, linear, wedge-shaped, emarginate: raceme terminal. East Indies. *Willd.* 3. p. 987. Plant pubescent.
- microphylla*. Leaves ternate, oblong: peduncles lateral, 2-flowered: stem decumbent. Arabia Felix. *Vahl. symb.* 1. p. 52. Plant glabrous: stipules setaceous, spreading.
- vulubilis*. Leaves ternate, obovate, obtuse, glabrous: flowers axillary, solitary. The Cape. *Thunb. prodr.* 125.

heterophylla Leaves ternate, elliptic, emarginate; the lower ones simple.

East Indies. *Raceme* terminal and lateral.

quinquefolia Leaves with 5 narrow-lanceolate leaflets.

East Indies. *Rheed. Mal.* 9. t. 28.

heptaphylla. Leaves with 7 ovate-oblong leaflets.

Cochinchina. *Lour. Cochinch.* 433.

1378. ONONIS. *Calyx* 5-parted, with linear divisions: *banner* striate: *legume* turgid, sessile: *filaments* in one undivided set. *Rest-barrow*.

A. *Flowers sessile*.

antiquorum. Flowers solitary, larger than the leaves: lower leaves ternate, lanceolate, toothed at top, glabrous: branches spinous, glabrous.

South of Europe. *Peduncles* twice as long as the bractes.

* *spinosa*. Flowers mostly in pairs, axillary: lower leaves ternate, lanceolate, ferrate, villous: branches spinous, villous.

2. Branches unarmed. *O. mitis*. *Sp. pl.* 1006.

Barren fields. *Eng. bot.* t. 682. *Mart. fl. russ.* t. 129.

hircina. Flowers in pairs: lower leaves ternate, elliptic, ferrate, pubescent: stem unarmed, villous-viscid.

Germany; Austria. *Jacq hort.* 1. t. 93.

* *repens*. Flowers solitary, axillary: lower leaves ternate, roundish, ferrate, villous: branches prostrate, spinous, villous.

Sea coast. *Dill. elth.* 29. t. 25. f. 28.

caduca. Flowers in threes, racemed: lower leaves ternate, oblong, ferrate, villous: branches diffuse, spinous villous.

Dauphigny. *Vill delph.* 3. p. 428.

bispida. Flowers solitary, nearly sessile, racemed: leaves ternate, obovate, ferrate, pubescent: stem erect, hairy.

Barbary: *Desfont. atl* 2 p. 146. t. 189.

Bractes small, ovate, pointed, sessile.

serrata. Flowers solitary, nearly sessile: lower leaves ternate, ferrate-toothed, wedge-form, about 3-toothed at top.

Egypt. *Vahl symb.* 1. p. 52.

Plant viscid-pubescent: *stem* decumbent.

minutissima. Flowers lateral, nearly sessile: leaves ternate, wedge-form, glabrous: stipules setaceous, very entire: calyx scarious, longer than the corol.

Italy. *Cavan. ic.* 2. p. 42. t. 143. *O. barbata*.

Stems diffuse, glabrous: *calyx* glabrous: *corol* yellow.

- Columnæ.* Flowers lateral, nearly sessile: leaves ternate, oblong, pubescent: stipules lanceolate, denticulate: calyx scarious, longer than the corol.
Europe. *Allion. ped.* 1. t. 20. f. 3. *Jacq. Austr.* t. 240.
Upper leaves ternate or simple: flowers yellow.
- capitata.* Flowers lateral, somewhat headed, nearly sessile: leaves ternate, oblong: stipules lance-subulate: calyx shorter than the corol.
Spain. *Cavan. ic.* 2. p. 45. t. 159. f. 2.
- mitissima.* Flowers sessile, spiked: bractes stipular, ovate, swelling, scarious, imbricate.
Barbadoes. *Dill. elth.* t. 24. f. 27. *Moris.* 2. *secl.* 2. t. 17. f. 9.
Stem-leaves ternate; floral ones simple: bractes concave.
- villosissima.* Flowers lateral, nearly sessile, somewhat spiked: lower leaves ternate, ovate, acute, viscid-villous: calyx viscid-villous: corols and legumes less than the calyx.
Barbary. *Desfont. atl.* 2. p. 147. t. 192.
Plant viscid: stipules ovate, toothed: flowers rosy.
- alopecuroides.* Flowers lateral, nearly sessile, somewhat spiked: leaves simple, ovate, obtuse: stipules dilated: corol glabrous, less than the calyx,
Sicily; Spain; Barbary. *Sp. pl.* 1008.
- monophylla.* Flowers lateral, nearly sessile, somewhat spiked: leaves simple, oblong, rather acute: stipules dilated: corol pubescent, equalling the calyx.
Barbary. *Desfont. atl.* 2. p. 145. t. 188.
- spicata.* Leaves simple, stipuled, ovate, silky: stem erect: flowers spiked.
The Cape. *Thunb. prodr.* 129.
- euphrasiaefolia.* Flowers sessile, spiked: leaves simple, linear-lanceolate, ferrate: stipules oblong-lanceolate, awned, toothed: stem erect.
Barbary. *Desfont. atl.* 2. p. 141. t. 184.
Corol yellow, twice as long as the calyx.
- variegata.* Flowers slightly peduncled, axillary: leaves simple, obovate, triate, ferrate: stipules ovate, toothed: stem procumbent.
Spain. *Desfont. atl.* 2. t. 185. *Bocc. sc.* 7. t. 38. f. 3.
Plant viscid: stipules broad, plaited, emarginate.
- alba.* Peduncles awnless, very short: leaves simple: stipules dilated, ferrate upwards.
Barbary. *Vahl. symb.* 2. p. 8. *Desfont. atl.* 2. p. 145.
All the leaves simple: stipules ferrate at top.

fasciculata. Leaves fascicled, lanceolate, crenate; flowers spiked: stem erect.

The Cape. *Thunb. prodr.* 130.

B. Flowers on awned peduncles.

vaginalis. Peduncles awned, 1-flowered: leaves sessile, ternate, toothed: stipules sheathing, toothed.

Egypt. *Vabl. symb.* 1. p. 53.

Plant villous-viscid: peduncles solitary, 1-flowered.

Gherleri. Peduncles slightly awned, 1-flowered: leaves ternate, wedge-form, toothed at top, villous-viscid: calyx longer than the corol.

Spain; Barbary. *Stipules* lanceolate, entire.

viscosa. Peduncles awned, 1-flowered, as long as the leaves: leaves simple, oblong, ferrate, viscid; the lower ones ternate.

Montpellier; Spain. *Barr. rar.* 840. t. 1239. Anonis.

Calyx sometimes longer than the corol.

biflora. Peduncles awned, 2-flowered, longer than the petiole: leaves ternate, oblong: legumes inflated, drooping.

Barbary. *Desfont. atl.* 2. p. 143.

Plant pubescent: leaves truncate, ferrate.

ornithopodoides. Peduncles awned, 2-flowered, shorter than the petiole: leaves ternate, oblong: legumes linear, drooping.

Spain; Sicily. *Carvan. ic.* 2. p. 74. t. 192.

Stem flexuous: leaves viscid: stipules half hearted.

ramosissima. Peduncles awned, 1-flowered, twice as long as the leaves: leaves ternate, linear-obovate: stipules oblong: stem very much branched.

Barbary. *Desfont. atl.* 2. p. 142. t. 186.

Plant villous, pubescent: legume linear, pubescent.

picla. Peduncles awned, many-flowered, longer than the leaves: leaves ternate, oblong: stipules ovate-lanceolate.

Barbary. *Desfont. atl.* 2. p. 144. t. 187.

Plant villous viscid: calyx nearly as long as the corol.

punguis. Peduncles awned, 1-flowered, longer than the leaves; the awns as long as the corol: leaves ternate, lanceolate, ferrate at top: stipules lance-subulate.

South of Europe. *Pluk. alm.* 33. t. 135. f. 5.

cuspidata. Peduncles awned, 1-flowered; the awns broader upwards: leaves ternate, oblong; the upper ones simple: stipules ovate-lanceolate, ferrulate.

Algeira. *Desfont. atl.* 2 p. 144. Leaves not viscid.

Natrix. Peduncles awned, 1-flowered, longer than the leaves: leaves ternate, viscid, oblong, obtuse, toothed at top: stipules oblong-lanceolate: stem suffruticose.

Spain; South of France. *Curt. mag.* t. 329.

- hispanica*. Peduncles awned, 1 or 2-flowered: all the leaves ternate, channelled, recurved, ferrate to the bottom.
Spain. *Plant* somewhat shrubby, viscid.

C. *Flowers on awnless peduncles.*

- pubescens*. Peduncles awnless, very short: upper leaves simple: stipules ovate-lanceolate, very entire.
South of Europe. *Plant* viscid - pubescent: *stem* diffuse: *branches* covered with leaves and flowers at the ends.
- persica*. Peduncles awnless, 2-flowered, racemed: leaves ternate, linear, truncate, ferrate: stipules very entire.
Persia. *Burm. Ind.* 157. t. 49. f. 1.
- cernua*. Raceme stiff: leaves wedge-form: legumes drooping, linear, recurved.
The Cape. *Comm. hort.* 2. p. 163. t. 82. Lotus.
Branches round, sprinkled with whitish hairs: *leaves* purplish underneath: *racemes* erect, hairy.
- micrantha*. Leaves ternate; leaflets oblong, obtuse: flowers in terminal umbels: stem decumbent.
The Cape. *Thunb. prodr.* 130.
- parviflora*. Leaves ternate, villous: umbels lateral: stem herbaceous, villous.
The Cape. *Thunb. prodr.* 129.
- umbellata*. Peduncles awnless, umbelled: leaves ternate, emarginate: stems prostrate.
The Cape. *Stems* filiform: *umbels* 4—8-flowered: *legume* with a rough dorsal suture.
- involuta*. Hairy, prostrate: peduncles awnless, umbelled, involucred; the involucre 4-leaved: leaves ternate, wedge-form.
The Cape. *Stipules* as large as the leaves.
- secunda*. Leaves ternate, glabrous, with oblong acute leaflets: umbels terminal: stem decumbent, herbaceous.
The Cape. *Thunb. prodr.* 130.
- glabra*. Leaves ternate, glabrous, with ovate obtuse leaflets: flowers umbelled: stem decumbent.
The Cape. *Thunb. prodr.* 130.
- filiformis*. Peduncles awnless, about 3-flowered: leaves ternate, nearly sessile, with ovate mucronate leaflets.
The Cape. *Stems* diffuse: *legume* cylindrical, acute.
- capensis*. Racemes peduncled, long: leaves ternate, nearly orbicular.
The Cape. *Amæn. acad.* 6. Afr. 41.
- excisa*. Peduncles awnless, 1-flowered, very long: leaves ternate, obovate, emarginate: stipules subulate: stem prostrate.
The Cape. *Thunb. prodr.* 129. Leaves pubescent beneath.

- prostrata.* Peduncles awnless, 1-flowered, very long: leaves ternate, acute: stipules subulate: stems prostrate.
The Cape. *Leaflets* lanceolate, mucronate each side.
- geminata.* Leaves ternate, obovate: peduncles lateral, 2-flowered.
The Cape. *Aiton Kew. 3. p. 23.* Resembles *O. excisa*.
- elongata.* Leaves ternate, hairy, with ovate acute leaflets: peduncles lateral, 1-flowered: stem decumbent.
The Cape. *Thunb. prodr. 129.*
- capillaris.* Leaves ternate, linear, glabrous: peduncles axillary, 1-flowered: stem somewhat erect.
The Cape. *Thunb. prodr. 129.*
- villosa.* Leaves ternate, lanceolate: peduncles lateral, 1-flowered: stem decumbent.
The Cape. *Thunb. prodr. 129.*
- heterophylla* Leaves ternate; the lower leaflets ovate, upper ones lanceolate: flowers solitary, peduncled.
The Cape. *Thunb. prodr. 129.*
- laxiflora.* Peduncles awnless, 1-flowered, longer than the leaf: leaves ternate, obovate: stipules roundish: legumes villous, nodding.
Barbary. *Desfont. atl. 2. p. 146. t. 190.*
Stem erect, villous: stipules ferrate, roundish.
- pendula.* Peduncles awnless, 1-flowered, somewhat racemed, drooping: leaves ternate, obovate, ferrate at top: stipules ovate, ferrate: legumes villous, nodding.
Barbary. *Desfont. atl. 2. p. 147. t. 191.*
Stem erect, villous: leaves glabrous: stipules obtuse.
- reclinata.* Peduncles awnless, 1-flowered: leaves ternate, roundish, crenate: legumes dropping.
South of Europe. *Plant* diffuse, viscid-pubescent: leaves orbicular, thickish, plaited: stipules oval, obtuse, ferrate.
- cenisia.* Peduncles awnless, 1-flowered: leaves ternate, wedge-shaped: stipules ferrate: stems prostrate.
Alps. *Allion. ped. 1. t. 10. f. 2. Spec. ped. 47. t. 10. f. 3.*
Leaves rounded at top, finely serrate: stipules lanceolate.

D. Shrubby.

- identata.* Shrubby: leaves ternate, fleshy, nearly linear, 3-toothed: peduncles 2-flowered.
Spain. *Cavan. ic. 2. p. 41. t. 152.*
Stem erect, paniced: raceme terminal, glutinous.
- strigosa.* Leaves ternate, villous underneath; leaflets ovate, obtuse: umbels terminal: stem decumbent, somewhat shrubby.
The Cape. *Thunb. prodr. 130.*

- stipulata.* Leaves ternate, villous: flowers spiked: stem shrubby.
The Cape. *Thunb. prodr.* 129.
- juncea.* Shrubby: leaves ternate, roundish, ferrulate; the upper ones simple: stipules swelling: flowers sessile, spiked.
Arragon. *Affo. synopsis* 96. t. 5. f. 2.
- crispa.* Shrubby: leaves ternate, roundish, undulate, toothed, viscid-pubescent: peduncles 1-flowered, awnless.
Spain. *Wendl. Röm. Arch.* 1. 3. t. 1. *Magn. monsp.* t. 17.
Leaves obtuse, recurved, channelled, plaited, curled.
- arborescens.* Shrubby: leaves ternate, obovate: stipules ovate, acute: raceme terminal: branches tubercled.
Barbary. *Desfont. atl.* 2. p. 149. t. 193.
- fruticosa.* Shrubby: leaves sessile, ternate, lanceolate, ferrate: stipules sheathing: peduncles 2 or 3-flowered.
Dauphigny. *Curt. mag.* t. 317. *Dubam. arb.* 1. t. 58.
Stipules dry, ending in 4 awns.
- aragonensis.* Shrubby: leaves ternate, roundish, ferrate: raceme terminal, naked: peduncles in pairs.
Arragon. *Affo. synopsis* 96. t. 6. f. 2.
- rotundifolia.* Shrubby: leaves ternate, ovate, toothed: calyx furrowed with 3 bractes: peduncles 2 or 3-flowered.
Switzerland. *Curt. mag.* t. 365. *Jacq. Aufst.* 5. t. app 49.
- microphylla.* Shrubby, spinous: leaves minute, very entire: legumes recurved.
The Cape. Shrub with strong spines: leaves ternate.
- Of uncertain division.*
- hirsuta.* Leaves simple, lanceolate, hairy: stem decumbent.
The Cape. *Thunb. prodr.* 129.
- decumbens.* Leaves ternate, pubescent, with acute leaflets: flowers solitary, lateral: stem decumbent.
The Cape. *Thunb. prodr.* 129.
- sericea.* Leaves ternate; leaflets oblong, villous underneath: spike leaning one way, 3-flowered.
The Cape. *Thunb. prodr.* 129.
- racemosa.* Leaves ternate, pubescent underneath; leaflets oblong: flowers racemed: stem decumbent.
The Cape. *Thunb. prodr.* 129.
- Lagopus.* Leaves ternate, lanceolate, villous: spike leafy: stem erect.
The Cape. *Thunb. prodr.* 129.
- quinata.* Leaves with 5 lanceolate convolute leaflets: flowers lateral: stem decumbent.
The Cape. *Thunb. prodr.* 130.

1379. ANTHYLLIS. *Calyx* inflated: *legume* roundish, invested with the calyx: *stamina* all united at the base.

A. *Herbaceous.*

tetraphylla. Herbaceous: leaves pinnate with 4 leaflets: flowers lateral.

Italy; Sicily. *Curt. mag. t. 108. Comm. hort. t. 47.*

**Vulneraria* Herbaceous: leaves pinnate unequal: head of flowers doubled.

Pastures. *Eng. bot. t. 104. Fl. Dan. t. 998.*

montana. Herbaceous: leaves pinnate, all equal: head of flowers terminal, leaning one way; flowers oblique.

Austria; Switzerland. *Jacq. Austr. t. 334. Gar. aix. t. 13.*

Stems prostrate: leaflets about 12 pair.

sericea. Herbaceous: leaves pinnate, equal, silky: spike of flowers peduncled, ovate.

Ebenus pinnata. *Aiton Kew. 3. p. 27. Desf. art. par. 1. t. 3.*

Barbary. *Vahl. symb. 2. p. 83. t. 41. Hedyfarum.*

polycephala. Herbaceous: leaves pinnate, equal, villous: heads of flowers sessile, alternate.

Barbary. *Desfont. atl. 2. p. 150. t. 195.*

cornicina. Herbaceous: leaves pinnate, unequal: head single, peduncled: legumes hooked, obtuse, shorter than the calyx.

Spain. *Cavan. ic. 2. p. 27. t. 39 f. 2.*

Plant white with hairs: flowers 7—9, white.

hamosa. Herbaceous: leaves pinnate, unequal: heads peduncled, alternate: legumes hooked, pointed, longer than the villous calyx.

Barbary. *Desfont. atl. 2. p. 151. Willd. 3. p. 1015.*

lotoides. Herbaceous: stem-leaves ternate; radical ones pinnate, unequal, simple and 3-cleft.

Spain. *Cavan. ic. 1. p. 28. t. 40.*

Head 5 or 6 flowered: legume bowed, obtuse.

Gerardi. Herbaceous: leaves pinnate, unequal: peduncles lateral, longer than the leaf: heads leafless.

South of France. *Ger prov. 490 t. 18.*

Stems prostrate, glabrous: leaves alternately pinnate.

onobrychoides. Herbaceous: leaves pinnate, equal: branches ternate: peduncles lateral, longer than the leaf: heads leafless: stipules obsolete.

Spain. *Cavan. ic. 2. p. 40. t. 150.*

incisa. Herbaceous: leaves pinnate and ternate, unequal, wedge-cut-toothed.

Islands of the Archipelago. *Willd. 3. p. 1017.*

Plant small: *stipules* ovate, as large as the leaves.

quinquefolia Herbaceous: leaves ternate, linear: head about 5-flowered. The Cape. *Leaflets* obtuse, hairy: *peduncles* terminal.

B. *Shrubby*.

linifolia. Shrubby: leaves ternate, sessile, sword-shaped: flowers in heads.

The Cape. *Leaves* sessile, remote: *stipules* none.

visciflora. Leaves sinuate in a finger-like manner: calyxes hairy.

The Cape. *Leaflets* linear, ovate, glabrous, unequal; 2 of them sessile and opposite, and 3 petioled between them; the lateral ones ternate or pinnate: *peduncles* as long as the leaves.

Barba Jovis. Shrubby; leaves pinnate, equal, silky-downy: head globular, many-flowered: bractes as long as the head.

South of Europe. *Mill. fig. t. 41. f. 2.*

splendens. Shrubby: leaves pinnate, equal, silky-downy: head appearing cut in halves, few-flowered: bracte longer than the head.

Crete. *Willd. 3. p. 1018.* Bracte ternate or pinnate.

cretica. Shrubby: leaves pinnate and ternate, equal, villous: flowers in spikes.

Crete. *Pluk. alm. t. 67. f. 5. Alp. exot. t. 228.*

Leaflets lanceolate: bractes ovate, acute, scarious.

heterophylla Shrubby: leaves pinnate; the floral ones ternate.

Spain. *Shrub* hoary: *leaflets* acute, silky.

cytisoides. Shrubby: leaves ternate, unequal: calyxes woolly, lateral. Spain. *Upper leaves* simple, sessile: *peduncles* 3-flowered.

Hermannia Shrubby: leaves ternate, linear-wedge-form, slightly petioled: heads campanulate: branches becoming spinous.

Greece; Crete. *Zann. hist. 99. t. 39.* Genista.

Branches ending in a spine: flowers 4.

erinacea. Shrubby, spinous, with simple leaves.

Spain; Barbary. *Andrews bot. repos t. 15.*

Shrub covered with spines: flowers purple.

1380. ARACHIS. Calyx 2-lipped: corol reversed: filaments all united: legume gibbous, swelling at the seeds, veined, coriaceous. Ground-Nut.

hypogæa. ARACHIS.

Indies. *Ebret. pict. t. 3. f. 3. Rumph. amb. 4. t. 156.*

2. Nearly glabrous. *Niss. ad. 1723. p. 387. t. 19.*

Stem herbaceous, hairy, procumbent: *leaves* abruptly pinnate, ovate, hairy, entire: *flowers* axillary, crowded, golden, often monoicous. The branches trail upon the ground, and the germ, after flowering, thrusts itself under ground, where the pod is formed and ripened.

1381. LUPINUS. *Calyx* 2-lipped: *antheræ* 5 of them oblong, 5 roundish: *legume* compressed, coriaceous, swelling at the seeds. *Lupine*.

A. *Herbaceous*: *leaves* in finger-like divisions.

perennis.

Calyxes alternate, without appendages; the upper lobe emarginate, lower entire.

Canada. *Curt. mag. t. 202, Mill. fig. t. 170. f. 1.*

Leaflets 9—11, lanceolate: *stipules* setaceous.

albus.

Calyxes alternate, without appendages; the upper-lip entire, lower 3-toothed.

The East. *Blackw. t. 282. Ludw. est. t. 191.*

Flowers white: *seeds* orbicular, compressed.

Terminis.

Calyxes alternate, appendaged; the upper lip entire, lower obscurely 3-toothed.

Egypt. *Forsk. descr. 131. Willd. 3. p. 1023.*

varius.

Calyxes half whorled, appendaged; the upper lip cloven, lower somewhat 3-toothed.

South of Europe. *Flowers* red: *leaflets* linear.

hirsutus.

Calyxes alternate, appendaged; the upper lip 2-parted, lower 3-toothed.

Arabia; Spain. *Plant* hairy: *flowers* blue.

braeolarius

Calyxes alternate, appendaged; the upper lip 2-parted, lower 3-cleft: *stipules* ovate-lanceolate.

Brazil. *Lamarck encycl. 3. p. 595.*

Plant clothed with ferruginous hairs: *leaflets* 5, ovate-oblong: *stipules* ovate-lanceolate, broad.

pilosus.

Calyxes whorled, appendaged; the upper lip 2-parted, lower entire.

South of Europe. *Plant* hairy: *corol* pale flesh-colour.

angustifolius.

Calyxes alternate, appendaged; the upper lip bifid, lower entire: *leaves* linear-lanceolate, flat.

Spain. *Knorr del. 2. t. L. 7. Flowers* blue.

linifolius.

Calyxes alternate, appendaged; the upper lip bifid, lower 2 or 3-cleft: *leaves* linear, channelled.

— *Roth. abb. p. 14. tab. 5.*

luteus.

Calyxes whorled, appendaged; the upper lip 2-parted, lower 3-toothed.

Sicily. *Curt. mag. t. 140. Riv. tetr. t. 26.*

Flowers yellow, fragrant, nearly sessile, spiked.

B. Shrubby: leaves in finger-like divisions.

- multiflorus*. Shrubby: leaflets lanceolate: calyxes alternate, appendaged; the upper lip bifid, lower 3-toothed.
Brasil. Lamarck. encycl. 3. p. 597.
Plant covered with appressed silky hairs.
- linearis*. Leaflets linear: calyxes alternate, appendaged; the upper lip bifid, lower with 3 unequal teeth.
Brasil. Lamarck. encycl. 3. p. 598.
Leaflets channelled, glabrous above: flowers azure.
- microphyllus*. Somewhat shrubby: leaflets linear: calyxes nearly forming heads, not appendaged; the upper lip 2-parted, lower entire.
Peru. Lamarck. encycl. 3. p. 596.
Leaves minute, channelled, covered with appressed hairs.
- paniculatus*. Shrubby: leaflets lanceolate: calyxes alternate, appendaged; the upper lip bifid, lower entire.
Peru. Lamarck. encycl. 3. p. 598.
Stem panicled: leaves glabrous above.
- sarmentosus*. Shrubby, climbing: leaflets lanceolate: calyxes whorled, not appendaged; the upper lip bifid, lower entire.
Peru. Lamarck. encycl. 3. p. 597.
Leaflets glabrous above: flowers red and blue.
- bimaculatus*. Shrubby, creeping and rooting at the joints, hoary: whorls 3-flowered, spiked; the banner with 2 callosities at the base.
Peru. Lamarck. encycl. 3. p. 597.
Flowers in a terminal raceme: corol violet-blue, with 2 yellow callosities at the base of the banner.
- alopecuroides*. Leaflets ovate-lanceolate: calyxes appendaged; the upper lip bifid, lower entire; bractes twice as long as the corol.
Peru. Lamarck. encycl. 3. p. 597.
Raceme long, thick: corol red and violet.

C. Herbaceous, with simple leaves.

- villosus*. Calyxes half whorled, appendaged; the upper lip bifid, lower undivided: leaves simple, oblong, villous.
Carolina. Walt. Carol. 18. Corol reddish.
- integrifolius*. Calyxes alternate, appendaged; the upper lip bifid, lower undivided: leaves simple, oblong, villous.
The Cape. Plant villous: flowers blue,

1382. PHASEOLUS. *Keel* with the stamina and
style spirally twisted. *Kidney-bean.*

A. *Climbing.*

- vulgaris.* Stem twining: raceme solitary, shorter than the leaves: peduncles in pairs: bractes less than the calyx, spreading: legumes pendulous.
East Indies. *Morif. hist.* 2. p. 68. *sect.* 2. t. 5. f. 1.
- multiflorus.* Stem twining: raceme solitary, as long as the leaves: peduncles in pairs: bractes less than the calyx, appressed: legumes pendulous.
America. *Morif. hist.* 2. p. 69. *sect.* 2. t. 5. f. 4.
- perennis.* Stem twining: racemes in pairs, longer than the leaf: peduncles in pairs: bractes obsolete: legumes pendulous.
Carolina. *Walt. Carol.* 182. Flowers purple-red.
- lunatus.* Stem twining: legumes scymitar-shaped, somewhat lunate, smooth.
Bengal. *Houtt. Linn. syst.* 8. t. 63. f. 1.
- Pallar.* Stem twining: legumes pendulous, cylindrical, uneven in their surface.
Chili. *Molin. Chil. ed. Germ.* 108.
- inamænus.* Stem twining: banner revolute, of the same colour as the calyx.
Africa. *Jacq. hort. tab.* 66.
- farinosus.* Stem twining: peduncles nearly forming heads: seeds square-cylindrical, mealy.
India. *Niss. act.* 1730. p. 577. *tab.* 42.
- vexillatus.* Stem twining: peduncles thicker than the petiole, forming heads: wings somewhat falcate, differently shaped: legumes linear, stiff.
Havannah. *Jacq. hort.* t. 102. *Dill. elth.* t. 234. f. 302.
Peduncles glabrous: flowers odorous; the right wing with a lobe at the base distinct from the base.
- helvolus.* Stem twining: flowers in heads: calyxes bracted: banner short; wings expanded, very large: leaflets deltoid, oblong.
Carolina. *Dill. elth.* 312. t. 233. f. 300.
- hirtus.* Stem half twining: legumes cylindrical: keel horned to the left.
The Cape. *Retz. obs.* 3. p. 38. *Willd.* 3. p. 1033.
Stem angular, bristly, flexuous, neither erect nor twining: leaves repand, bristly both sides.

- semierectus*. Stem half twining: flowers in spikes: calyxes without bractes: wings expanded, very large: leaflets ovate. America. *Jacq. ic. 3. t. 558. Dill. elth. t. 233. f. 301.*
 Stem twining at top: wings red, with a blueish base.
- alatus*. Stem twining: flowers in loose spikes: wings as long as the banner.
 — *Dill. elth. 314. t. 235. f. 303.*
- Caracalla*. Stem twining: banner and keels spirally convolute. East Indies. *Trew. rar. t. 10. Triumph. obs. t. 94.*
- Asellus*. Stem twining: leaflets arrow-shaped: seeds globular. Chili. *Molin. Chili. ed. Germ. 108.*

B. Erect.

- aconitifolius*. Stem somewhat twining, hairy: lateral leaflets 3-lobed, terminal one 5-parted with lanceolate divisions: peduncles about 3-flowered, shorter than the petiole: stipules lanceolate.
 Tranquebar. *Jacq. obs. 3. p. 2. t. 52.*
- trilobus*. Stem somewhat twining, glabrous: lateral leaflets 2-lobed, terminal one 3-lobed with ovate divisions: peduncles about 3-flowered, longer than the petiole: stipules ovate.
 East Indies. *Burm. Ind. t. 50. f. 1. Pluk. alm. t. 214. f. 3.*
- stipularis*. Stem erect, glabrous: lateral leaflets obtuse, sinuous; terminal one 3-lobed in a halbert-shaped manner: peduncles spiked, longer than the leaf: stipules ovate.
 Peru. *Lamarck. encycl. 3. p. 71.*
Corol sessile; banner brown, wings yellow, keel white.
- capensis*. Stem filiform, decumbent: peduncles 1-flowered: leaflets lanceolate.
 The Cape. *Thunb. prodr. 139.*
- nanus*. Stem erect, smooth: bractes larger than the calyx: legumes pendulous, compressed, wrinkled.
 India. *Flowers* white: *seeds* white with a black eye.
- radiatus*. Stem erect, round: flowers in heads: legumes cylindrical, horizontal.
 China. *Dill. elth. t. 205. f. 304. Rumph. amb. 6. t. 139. f. 2.*
- Max*. Stem erect, angular, bristly: legumes pendulous, hairy.
 India. *Rumph. amb. 5. p. 388. t. 140.*
Legume with an incurved beak: *seeds* black.
- Mungo*. Stem flexuous, round, hairy: legumes in heads, hairy.
 East Indies. *Plant* hairy, a little climbing: *receptacle* ovate, glabrous, bearing a head of yellow sessile flowers.

- latbyroides*. Stem erect; leaflets oblong, pointed: peduncles elongated: legumes cylindrico-subulate.
Jamaica. *Sloane Jam.* 1. p. 183. t. 116. f. 1.
- sphaerospermus*. Stem erect: seeds globular, with a coloured eye.
Jamaica. *Sloane Jam.* 1. p. 185. t. 117. f. 1, 2, 3.
Corol white: seeds small, white, with a black eye.

1383. DOLICHOS. Banner with 2 parallel oblong callosities at the base, compressing the wings underneath.

A. Twining.

- Lablab*. Twining: legumes ovate-scymitar-shaped: seeds ovate, with a curved eye towards one end.
Egypt. *Alp. Egypt.* t. 75. Legumes rough on the back.
- benghalensis*. Twining, shrubby: legumes ending in long points.
Bengal. *Jacq. hort.* 2. t. 124.
- sinensis*. Twining: legumes pendulous, cylindrical, swelling at the seeds: peduncles erect, many-flowered.
China. *Rumph. amb.* 5. p. 375. t. 134.
- lateolus*. Twining: legumes in heads, numerous, cylindrical: seeds rounded.
South America. *Jacq. hort.* 1. t. 90.
- umbellatus*. Twining: legumes nearly cylindrical, straight, glabrous.
Japan. *Thunb. Transact. Linn. soc.* 2. p. 339.
- unguiculatus*. Twining: legumes in heads, nearly cylindrical, with re-curved concave tips.
Barbadoes. *Jacq. hort. tab.* 23.
- tranquebaricus*. Twining: legumes in heads, few, cylindrical, with straight mucronate tips.
Tranquebar. *Jacq. hort.* 2. tab. 70.
- cultratus*. Twining: legumes racemed, oblong, scymitar-shaped, with 3 ribs down the back, and hooked tips.
Japan. *Banks Icon. Kämpf. tab.* 25.
- gladiatus*. Twining: legumes racemed, ensiform, with 3 ribs down the back, and straight tips: seeds coated.
East Indies. *Jacq. ic. rar.* 3. t. 560. *Rheed. Mal.* 8. t. 44.
- incurvus*. Twining: legumes solitary, incurved, 3-ribbed.
Japan. *Thunb. Jap.* 280. Legumes axillary.
- tetragonolobus*. Twining: legumes with 4 membranaceous angles.
India. *Rumph. amb.* 5. p. 374. t. 133.
- sequipedalis*. Twining: legumes nearly cylindrical, smooth, nearly 2 feet long.
America. *Jacq. hort.* t. 67. Legumes roundish.

- rotundifolius*. Twining: legumes racemed, compressed, a little hairy, ensiform: leaflets oval-roundish, glabrous.
Caribbees. *Jacq. Schreb. 2. t. 221? Rheed. Mal. 8. t. 43.*
Stem glabrous, angular above: corol large, purple.
- altissimus*. Twining: legumes racemed, hairy, equal: seeds surrounded with a scar: leaves glabrous both sides.
Martinico. *Jacq. Amer. t. 182. f. 85. pict. t. 190.*
Leaflets roundish-ovate, pointed: flowers violet.
- giganteus*. Twining: legumes racemed, hairy, equal: seeds surrounded with a scar: leaves glabrous both sides: calyxes hairy, campanulate.
East Indies. *Rheed. Mal. 8. p. 63. t. 36.*
Leaflets oblong-ovate, acute: flowers greenish-white.
- pruriens*. Twining: legumes racemed, the valves slightly carinate and hairy: peduncles 3 together.
Indies. *Woodv. t. 172. Jacq. Amer. t. 122. pict. t. 188.*
Leaves hairy underneath: legumes compressed, inflected at the base, reflected at the tip, like the letter *f*.
The hairs upon this and the next species cause a violent itching smart if handled, and are the Cowbage or Cow-itch of the shops.
- urens*. Twining: legumes racemed, transversely lanceolate with grooves: seeds surrounded with a scar.
South America. *Jacq. Amer. t. 182. f. 84. Plum. ic. t. 107.*
Leaves downy underneath: legumes large, wrinkled.
- articulatus*. Twining: legumes racemed, jointed, hairy: leaflets toothed.
St. Domingo. *Lamark. encycl. 2. p. 294.*
- hirsutus*. Twining: legumes racemed, compressed, hairy: outer-leaflets 2-lobed.
Japan. *Banks Icon. Kämpf. t. 41.*
- pilosus*. Twining: legumes somewhat racemed, linear, hairy: leaflets ovate-lanceolate, pubescent.
East Indies. *Willd. sp. pl. 3. p. 1043. n. 20.*
Stem round, clothed with a very few appressed hairs.
- minimus*. Twining: legumes racemed, compressed, 4-seeded: leaves rhombic.
Jamaica. *Sloane Jam. 1. t. 115. f. 1. Jacq. obs. 1. t. 22.*
- tetraspermus*. Twining: legumes racemed, scymitar-shaped, 4-seeded: leaves rhombic, glabrous.
East Indies. *Willd. sp. pl. 3. p. 1044. n. 22.*
Leaves glabrous, obtuse, mucronate: flowers small.
- medicagineus*. Twining: legumes racemed, oblong, 2-seeded, compressed: leaflets roundish-obovate.
Ceylon. *Burm. Zeyl. 188. t. 84. f. 2. Phaseolus.*

- lineatus.* Twining: legumes racemed, oblong, with 3 lines down the back.
Japan. *Thunb. Jap.* 280. Leaves and legumes glabrous.
- ruber.* Twining: legumes racemed, compressed: calyx 4-cleft.
Martinico. *Jacq. Amer.* t. 123. Leaves glabrous.
- subracemosus.* Twining: peduncles somewhat racemed: legumes stiff, linear, glabrous.
Carthageria. *Jacq. Amer.* 205. Plant shining.
- tuberosus.* Stem twining, square: legumes compressed, hairy, racemed: leaflets roundish-rhombic, pointed.
Martinico. *Root* tuberos: *legumes* falcate.
- capensis.* Twining: peduncles 1 or 2-flowered: legumes elliptic, compressed: leaves glabrous.
The Cape. *Legumes* scymitar-shaped, glabrous.
- scarabaeoides.* Twining: leaves ovate, downy: flowers solitary: seeds 2-horned.
East Indies. *Pluk. alm.* 290. t. 52. f. 3. Phaseolus.
Seeds black, resembling a 2-horned beetle.
- reticulatus.* Twining: leaves ovate, acute, wrinkled, reticulate, villous: racemes few-flowered.
New Holland. *Aiton Kew.* 3. p. 33.
- bulbosus.* Twining: leaves glabrous, many-angled, toothed.
Indies. *Rumph. amb.* 5. t. 132. *Pluk. alm.* t. 52. f. 4.
Root of roundish tailed juicy bundles of tubers.
- falcatus.* Twining: leaves roundish-ovate, pointed, glabrous; the terminal one 3-lobed: peduncles 2-flowered.
East Indies. *Willd. sp. pl.* 3. p. 1047. n. 32.
Legumes compressed, falcate, many-seeded.
- lobatus.* Twining: lateral leaflets 2-lobed, terminal one 3-lobed with the middle lobe mucronate: flowers racemed.
The Cape. *Hout. Linn. syst.* 8. p. 560. t. 64. f. 1.
- argenteus.* Twining: peduncles 2-flowered: legumes hairy: leaflets somewhat angular, the terminal one 3-lobed, silky-villous underneath.
Guinea. *Willd. sp. pl.* 3. p. 1047. *Legumes* oblong.
- aristatus.* Twining: peduncles 2-flowered, axillary: legumes linear, compressed, with a straight terminal awn.
America. *Awn* filiform, an inch long.
- filiformis.* Twining: leaflets linear, obtuse, mucronate, glabrous, pubescent underneath.
Jamaica. *Legumes* compressed, many-seeded.

- purpureus*. Twining: stem glabrous: petioles pubescent: wings of the corol spreading.
Indies. Stem purplish: leaves glabrous, with purple veins underneath: corol purple: legumes compressed.
- regularis*. Twining: leaves ovate, obtuse: peduncles many-flowered: petals equal in size and shape.
Virginia. *Sp. pl.* 1022. *Gronov. Virg.* 82.
- ciliaris*. Twining: peduncles axillary, 3 or 4-flowered: leaflets oblong, ciliate round the margin.
East Indies. *Willd. sp. pl.* 3. p. 1049.
- lignosus*. Twining: stem perennial: peduncles forming heads: legumes stiff, linear.
East Indies. *Curt. mag. t.* 380. *Hort. cliff. t.* 20.
- polystachyos*. Twining: stem perennial: spikes very long; pedicels in pairs: legumes pointed, compressed.
Virginia. *Flowers* purple.
- luteus*. Twining: flowers somewhat spiked: legumes nearly cylindrical, glabrous: leaves roundish-rhombic, obtuse, entire, glabrous.
Jamaica. *Savartx prodr.* 105.

B. Erect.

- ensiformis*. Stem nearly erect: legumes scymitar-shaped, with 3 ribs.
Jamaica. *Sloane Jam.* 1. t. 114. f. 1, 2, 4. *Jacq. ic. rar.* t. 559.
Legumes large, glabrous, with a recurved point.
- pubescens*. Stem erect, half twining: legumes mostly in pairs, pubescent: leaves pubescent.
East Indies. *Willd.* 3. p. 1050. Legumes linear, compressed.
- Soja*. Stem erect, flexuous: racemes axillary, erect: legumes pendulous, bristly, about 2-seeded.
Japan. *Jacq. ic. rar.* 1. t. 145. *Kämpf. amœn.* t. 838.
Plant hairy: corols hardly larger than the calyx.
From the seeds is prepared the sauce called Soy.
- Catiang*. Stem erect: legumes in pairs, linear, nearly erect.
East Indies. *Rumph. amb.* 5. t. 139. *Rheed. Mal.* 3. t. 41.
- angularis*. Stem erect, hairy: peduncles 2-flowered: legumes pendulous: outer leaflets somewhat angular.
Japan. *Banks Icon. Kämpf.* t. 40.
- biflorus*. Stem perennial, smooth: peduncles 2-flowered: legumes erect.
India. *Pluk. alm.* 291. t. 213. f. 4.
- repens*. Stem creeping: leaves pubescent, ovate: flowers racemed, in pairs: legumes linear, cylindrical.
Jamaica. The root is a strong purgative.

roseus. Stem creeping, ascending: leaflets roundish, shining: flowers racemed: legumes with 3 ribs down the back.
Jamaica. *Swariz prodr.* 105.

fabæformis. Stem erect, angular: leaves glaucous, with mucronate teeth: legumes stiff, somewhat 4-sided.
Arabia. *L'Herit stirp.* t. 78. *Cavan. ic.* 1. t. 59.
Stem flexuous: racemes axillary: legumes pointed.

C. Doubtful.

gibbosus. Flowers racemed: leaflets pointed, glabrous,
The Cape. *Thunb. prodr.* 130.

decumbens. Flowers umbelled, lateral: leaflets ovate, obtuse, glabrous.
The Cape. *Thunb. prodr.* 130.

1384. GLYCINE. *Calyx* 2-lipped: *keel* of the corol turning back the banner at the tip.

subterranea Leaves ternate, radical: stems prostrate, flexuous: peduncles 2-flowered.
Brasil. *Linn. dec.* t. 17. Leaflets oblong, naked.

clandestina. Leaves ternate, lanceolate, silky underneath: peduncles 3 together, axillary: calyx closed, larger than the 3-petalled corol: legumes linear, roundish.
New Holland. *Wendl. obs.* 54. *Willd.* 3. p. 1054.
Stem twining, silky-villous: flowers hardly visible.

sarmentosa. Leaves ternate, ovate, glabrous: racemes filiform, 2 or 3-flowered: petals none: legumes oblong, 2-seeded.
Carolina. *Schkuhr. bot. annal.* 12. p. 20. t. 2.
Stem twining: seeds grey with black dots.

monoica. Leaves ternate, ovate, glabrous: stem hairy: racemes on the stems pendulous, furnished with petals, steril: radical peduncles without petals, bearing fruit.
North America. *Wendl. in Ræm. Archiv.* 3. p. 103. t. 2.
Stem with grey hairs pointing backwards.

angulosa. Leaves ternate; lateral leaflets 2-lobed, terminal one parabolic: peduncles longer than the leaves: flowers in heads.
Pennsylvania. *Willd.* 3. p. 1056. Leaves glabrous.

triloba. Leaves ternate; leaflets lobed: stem prostrate: peduncles 2-flowered.
India. *Pluk. alm.* 292. t. 120. f. 7. *Phaseolus*.
Plant prostrate: flowers small, yellow.

villosa. Leaves ternate, 3-lobed, villous: racemes axillary.
Japan. Plant downy: stem twining, flexuous,

- javanica*. Leaves ternate: stem villous: petioles hairy: bractes lanceolate, minute.
East Indies. Stem with yellow reflected hairs: spike ovate oblong, dense, of nodding violet flowers.
- angustifolia* Stem shrubby, twining: leaves ternate; leaflets linear-lanceolate, silky: flowers axillary, solitary: legumes 2-seeded.
The Cape. *Jacq. hort. schænb. 2. p. 55. t. 231.*
- beterophylla* Leaves ternate, glabrous, oblong and linear: flowers umbelled: stem decumbent.
The Cape. *Thunb. prodr. 131.*
- argentea*. Leaves ternate, silvery: flowers umbelled: stem twining.
The Cape. *Linn. suppl. 324. Ononis argentea.*
- totia*. Leaves ternate, reticulate; leaflets ovate, ciliate: stem decumbent.
The Cape. *Thunb. prodr. 131.*
- glandulosa*. Leaves ternate, reticulate; leaflets ovate, glabrous: peduncles lateral, 1-flowered: stem decumbent.
The Cape. *Thunb. prodr. 131.*
- erecta*. Leaves ternate, villous; leaflets oblong: flowers umbelled: stem erect.
The Cape. *Thunb. prodr. 131.*
- comosa*. Leaves ternate, hairy: racemes lateral.
Virginia. Flowers blue: seeds with purple spots.
- umbellata*. Leaves ternate, ovate, glabrous: peduncles umbelled, longer than the petiole: legumes linear.
Pennsylvania. *Willd. 3. p. 1058. Stem twining.*
- sericea*. Leaves ternate, ovate, retuse, silky underneath: racemes longer than the leaves.
Guinea. *Willd. 3. p. 1059. Stem twining: legumes silky.*
- tenuiflora*. Leaves ternate, oblong, mucronate, shining, hairy underneath: racemes axillary, filiform: legumes linear, compressed.
India. *Willd. 3. p. 1059. Stem twining: flowers small.*
- viscidum*. Leaves ternate, roundish-rhombic, glabrous: racemes axillary: stem and branches viscid-bristly: legumes membranaceous, obtuse.
Hedyfarum viscidum. Sp. pl. 1054.
India. *Burm Zeyl. t. 84. f. 1. Phaseolus.*
- parviflora*: Leaves ternate, oblong-ovate, acute, hairy underneath: racemes shorter than the leaf: legumes linear, compressed, with hooked points.
East Indies. *Lamarck. encycl. 2. p. 729.*

- debilis.* Leaves ternate; leaflets oval, hairy underneath: legumes mostly solitary, linear, 1-seeded: style permanent, straight.
East Indies. *Aiton Kew. 3. p. 34.*
- bedysaroides* Leaves ternate, ovate, obtuse with a point, hairy underneath: flowers axillary, 4 or 5 together: legumes linear.
Guinea. *Willd. 3. p. 1060.* Stem shrubby, erect, downy.
- phaseoloides* Leaves ternate, villous underneath: racemes terminal.
Jamaica; Hispaniola. *Brown Jam. 298. Swartz prodr. 125.*
- lucida.* Twining: leaves ternate; leaflets ovate, pointed, very entire: racemes terminal, glandular; pedicels 3 together: legumes inflated, 2-seeded.
Society Islands. *Forst. prodr. 272.*
- labialis.* Twining: leaves ternate, obovate, a little hoary: flowers axillary, crowded: corol nearly 2-lipped.
East Indies. *Wings* deflected; keel uniting at top.
- tomentosa.* Leaves ternate, downy: racemes axillary, very short: legumes 2-seeded.
2. *Dolichos pubescens. Sp. pl. 2. p. 1021.*
North America. *Dill. elib. 30. t. 26. f. 29.* Anonis.
Legumes oblong, pubescent, a little recurved.
- reticulata.* Leaves ternate, ovate-rhombic, pubescent, reticulate with veins and downy underneath: racemes axillary: legumes somewhat pubescent; stem twining.
Jamaica. Legumes clothed with minute appressed hairs.
- mollis.* Leaves ternate, elliptic, obtuse at each end, pubescent, reticulate with veins and downy underneath: peduncles axillary, 1-flowered: legumes villous: stem twining.
Guinea? *Willd. 3 p. 1062.* Legume 3-seeded, with erect hairs.
- pila.* Leaves ternate, lanceolate, pubescent, reticulate with veins and downy underneath: racemes axillary: legumes villous: stem erect.
Guiana. *Aubl. Gui. 2. t. 306.* *Cytisus violaceus.*
- cana.* Leaves ternate, roundish-ovate, downy underneath: peduncles axillary, 2-flowered: legumes oblong, glabrous: stem erect.
India. *Willd. 3. p. 1063.* Stem erect: legumes 2-seeded.
- ruaveolens.* Leaves ternate, ovate, acute, viscid-hairy: peduncles jointed, 1 or 2-flowered: legumes oblong: stem erect.
Madras. *Shrub* hoary, viscid, sweet-smelling.
- striata.* Twining: leaves ternate, oblong, very soft and hoary: racemes axillary, as long as the leaves: legumes very hairy.
America. *Jacq. hort. 1. p. 32. t. 76.*

- caribæa*. Leaves ternate, ovate-rhombic, with resinous dots underneath: racemes longer than the leaves: legumes scy-mitar-shaped, 2-seeded, hairy: stem twining.
Caribbees. *Jacq. ic. rar. 1. tab. 146.*
- bituminosa*. Leaves ternate: flowers racemed: legumes tumid, viscid: stem twining.
The Cape. *Herm. lugdb. t. 493.* Phaseolus.
Leaflets glabrous above: racemes axillary, yellow.
- secunda*. Leaves ternate, rough underneath: flowers racemed, leaning one way.
The Cape. *Thunb. prodr. 131.*
- rosea*. Twining: leaves ternate; leaflets heart-ovate, pointed, very entire: peduncles 3-flowered: legumes compressed, carinate, 1-seeded.
Society Islands. *Forst. prodr. n. 271.*
- rubicunda*. Leaves ternate, oblong, silky underneath: peduncles 2 or 3-flowered: stem twining, shrubby.
New Holland. *Curt. mag. t. 268.*
- coccinea*. Leaves ternate, roundish, undulate, villous underneath: peduncles 1-flowered: stem twining, shrubby.
New Holland. *Curt. mag. t. 270.* Flowers scarlet.
- rhombifolia*. Leaves ternate, roundish-rhombic, glabrous, with resinous dots underneath: racemes leaning one way, longer than the leaves: legumes oblong, 2-seeded: stem twining.
East Indies. *Willd. 3. p. 1065.* Legumes acute, glabrous.
- punctata*. Leaves ternate, obovate, retuse, with pellucid dots: racemes as long as the leaves: stem twining.
St. Domingo. *Willd. 3. p. 1066.* Leaves glabrous.
- Nummularia*. Leaves ternate, very obtuse: flowers racemed, in 3 remote pairs: legumes sessile, nearly orbicular, compressed.
East Indies. Stem twining: legumes 1-seeded.
- floribunda*. Leaves with 11 ovate leaflets: racemes longer than the leaf: stem shrubby, twining.
Japan. *Houtt. Linn syst. 8. t. 64. f. 1.* Dolichos.
- Apios*. Leaves with 7 ovate-lanceolate leaflets: racemes shorter than the leaf: stem herbaceous, twining.
Virginia. *Moris. 2. f. 2. t. 9. f. 1.* *Stiff bot. t. 29.*
- frutescens*. Leaves with 9 ovate leaflets: racemes bracted: stem shrubby, twining.
Carolina. *Hort. Angl. 55. t. 15.* Flowers blue.
- bimaculata*. Leaves simple, ovate-lanceolate, obtuse, with a point: flowers racemed: stem shrubby, twining.
New Holland. *Curt. mag. tab. 263.*
Corol blue, with 2 greenish spots on the banner.

1385. CYLISTA. *Calyx* 4-cleft, larger than the corol; the uppermost division cloven at the tip, the lowermost very large: *corol* permanent: *legume* mostly 2-seeded.

scariosa. CYLISTA. *Roxb. Coromand.* 1. tab. 92.
Stem twining, shrubby: *leaves* ternate, pubescent: *racemes* axillary, as long as the leaves: *flowers* yellow.

villosa. CYLISTA. *Aiton Kew.* 3. p. 36.

1386. CLITORIA. *Corol* reversed; the banner very large, spreading, overshadowing the wings.

Ternatea. Leaves with 5 leaflets: peduncles axillary, 1-flowered.

1. Leaves oblong, obtuse. *Rheed. Mal.* 8. t. 38.

2. Leaves ovate, acute. *Breyn. cent.* 76. t. 31.

India. *Comm. hort.* 1. t. 24. Double flower.

Stem twining, herbaceous: *flowers* blue or white.

multiflora. Leaves with many pairs of leaflets, silky underneath: *racemes* axillary, many-flowered.

St. Domingo. *Swartz prodr.* 106.

brasiliانا. Leaves ternate: calyxes solitary, campanulate.

Brasil. *Breyn. cent.* 78. t. 32. Flowers blue.

virginiana. Leaves ternate: calyxes in pairs, campanulate.

Virginia; Jamaica. *Dill. elth.* 90. t. 76. f. 87.

mariana. Leaves ternate, glaucous beneath: calyxes cylindrical.

North America. Stem, as in the others, twining.

Galactia. Leaves ternate: raceme erect: flowers pendulous.

Jamaica. *Brown Jam.* t. 32. f. 2. *Sloane Jam.* 1. t. 114. f. 4.

Perianth 4-toothed, covered with 2 small bractes.

1387. PISUM. *Style* triangular, carinate with a sharp edge and downy on the upper side: 2 upper segments of the *calyx* shorter. *Pea.*

sativum. Petioles cylindrical: stipules rounded and crenate at bottom: peduncles many-flowered.

2. Common marrow-fat. 3) With the peas green. 4) With the husk eatable. 5) With the flowers in umbels.

Europe. *Blackw.* t. 83. *Ludw. ess.* t. 169.

arvense. Petioles 4-leaved: stipules crenate: peduncles 1-flowered.

Europe. *Morif hist.* 2. p. 47. *sect.* 2. t. 1. f. 4.

* *maritimum.* Petioles flattish on the upper side: stem angular: stipules arrow-shaped: peduncles many-flowered.

Sea shores. *Eng. bot.* t. 1046. *Fl. Dan.* t. 338.

- Ochrus*. Petioles decurrent, membranaceous, 2-leaved: peduncles 1-flowered.
Crete; Italy. *Leaflets* convolute.

1388. *OROBUS*. *Style* linear, cylindrical, downy on the upper side: *calyx* obtuse at the base, the upper segments shorter and deeper cut.

Bitter-Vetch.

- latbyroides*. With a single pair of nearly sessile leaflets: stipules toothed.

Siberia. *Amm. rub.* 151. *tab.* 7. *f.* 2.

- hirsutus*. With a single pair of petioled leaflets: stipules entire.
Thrace. *Buxb. cent.* 3. *t.* 41. Plant hairy.

- luteus*. Leaflets 4 or 5 pair, oblong, glaucous underneath: stipules half arrow-shaped, toothed at the base: stem simple.
Alps. *Gmel. Sib.* 4. *t.* 4. Flowers yellow.

- vernus*. With 3 pair of ovate pointed leaflets: stipules half arrow-shaped, entire: stem simple.
Switzerland. *Curt. mag.* t. 521. *Blackw.* t. 208. *f.* 1, 2.

- tuberosus*. With 2 or 3 pair of lanceolate sessile leaflets: stipules half arrow-shaped, toothed at the base: stem winged at the top.
Woods. *Eng. bot.* t. 1153. *Curt. Lond. fasc.* 1. *t.* 53.

- albus*. With 2 pair of ensiform petioled leaflets: stipules lance-linear: stem simple.
Austria. *Jacq. Austr.* 1. *t.* 39. *Crantz. Austr.* 1. *t.* 1. *f.* 1.

- angustifolius*. With 2 pair of ensiform sessile leaflets: stipules subulate: stem simple.
Siberia. *Gmel. Sib.* 4. *p.* 14. *tab.* 5.
Racemes ending in a thread: flowers yellow.

- canescens*. With 2 pair of linear leaflets: stipules half arrow-shaped, subulate: stem branched.
France. *Stem* branched: flowers pale blue.

- atropurpureus*. With 2 or 3 pair of linear leaflets: stipules half arrow-shaped, awned: stem round, simple.
Barbary. *Desfont. atl.* 2. *p.* 157. *t.* 196.
Stipules with an awned lateral lobe: flowers purple.

- niger*. With 6 pair of ovate-oblong leaflets: stem branched.
European mountains. *Riv. tab.* 60.

- pyrenaicus*. With 2 pair of lanceolate nerved leaflets: stipules somewhat spinous: stem branched.
Pyrenees. *Pluk. phyt.* 210. *f.* 2.

• *syriaticus*, With many pairs of ovate-lanceolate leaflets hairy underneath: stipules half lanceolate: stem branched, decumbent, hairy.

Woods. *Eng. bot. t. 518. Lightfoot Scot. 390. t. 16.*

• *orbiculatus*, With many pairs of elliptic glabrous leaflets: stipules ovate-lanceolate: stem branched, erect, hairy.

Hungary. *Waldst. et Kitaib pl rar. Hung.*

1389. LATHYRUS. Style flat, villous above, broader upwards: 2 upper segments of the calyx shorter.

A. Peduncles 1-flowered.

• *Aphaca*, Peduncles 1-flowered: tendrils leafless: stipules heart-arrow-shaped.

Cultivated fields. *Eng. bot. t. 1167. Curt. Lond. fasc. 5. t. 51.*

• *Nissolia*, Peduncles mostly 1-flowered: leaves simple, grass-like: stipules subulate.

Margins of fields. *Eng. bot. t. 112. Curt. Lond. fasc. 6. t. 51.*

• *amphicarpos*, Peduncles 1-flowered, longer than the calyx: tendrils 2-leaved, simple.

Syria. *Morif. sect. 2. t. 23. f. 1.*

• *Cicera*, Peduncles 1-flowered: tendrils 2-leaved: legumes ovate, compressed, channelled on the back.

Spain. *Petioles not membranaceous: flowers red.*

• *sativus*, Peduncles 1-flowered: tendrils 2 and 4-leaved: legumes ovate, compressed, 2-edged on the back.

South of Europe. *Curt. mag. t. 115. Riv. t. 47.*

• *inconspicuus*, Peduncles 1-flowered, shorter than the calyx: tendrils 2-leaved, simple: leaflets lanceolate.

Levant. *Jacq. hort. 1. t. 86. Plant small.*

• *setifolius*, Peduncles 1-flowered: tendrils 2-leaved: leaflets linear-setaceous.

South of Europe. *Stipules appendaged: legume turgid.*

• *sphaericus*, Peduncles 1-flowered, awned: tendrils 2-leaved, quite simple, ensiform.

France; Italy. *Retz. obs. 3. p. 39.*

Legume longitudinally wrinkled, with a long point, swelling at the seeds.

• *angulatus*, Peduncles 1-flowered, awned: tendrils 2-leaved, quite simple; leaflets linear.

South of Europe. *Buxb. cent. 3. p. 73. t. 42. f. 2.*

Stems numerous: legume oblong, compressed.

- tumidus*. Peduncles 1-flowered, shorter than the stipules: tendrils 2 and 4-leaved: stipules toothed: legumes erect, turgid, villous.
 ——— *Lamarck. encycl. 2. p. 638.*
- hirtus*. Peduncles 1-flowered: tendrils 2-leaved; leaflets oblong-elliptic, obtuse with a brittle-like point: legumes hairy.
 ——— *Buxb. cent. 3. t. 43. f. 1?* Stipules entire.
- monanthos*. Peduncles 1-flowered, awned: tendrils many-leaved: leaflets linear, truncate with a point.
 Asia; Germany. *Sp. pl. 1040.* *Ervum monanthos.*
- articulatus*. Peduncles mostly 1-flowered: tendrils many-leaved; leaflets alternate, lanceolate: petioles winged.
 Italy. *Curt. mag. t. 253. Mill. fig. t. 96.*
 Leaflets 2 or 3 pair: legumes swelling at the seeds.
- B. Peduncles 2-flowered.
- odoratus*. Peduncles 2-flowered: tendrils 2-leaved; leaflets ovate-oblong: legumes hairy. *Sweet Pea.*
 Sicily. *Curt. mag. t. 60. Comm. hort. 2. t. 80.*
- annuus*. Peduncles 2-flowered: tendrils 2-leaved; leaflets ensiform: legumes glabrous: stipules 2-parted.
 Spain; Montpellier. *Riv. tetr. tab. 44.*
- tingitanus*. Peduncles 2-flowered: tendrils 2-leaved; leaflets alternate, lanceolate, glabrous: stipules lunate.
 Mauritiana. *Curt. mag. t. 100. Jacq. hort. t. 46.*
- subulatus*. Peduncles 2-flowered, very long: tendrils 2-leaved, simple; leaflets linear-subulate, villous, striate with nerves underneath.
 Brasil. *Lamarck. encycl. 2. p. 669.* 2) Peduncles 3-flowered.
- Clymenum*. Peduncles 2-flowered: tendrils many-leaved; leaflets lanceolate: stipules toothed.
 Barbary. *Pluk. phyt. t. 114. f. 6.*
- tenuifolius*. Peduncles 1 or 2-flowered: petioles winged; the lower ones leafless, upper ones with many linear leaflets.
 Barbary. *Desfont. atl. 2. p. 169.* Plant glabrous.
- hirsutus*. Peduncles mostly 2-flowered: tendrils 2-leaved; leaflets linear-lanceolate: legumes hairy: seeds rough.
 Cultivated fields. *Eng. bot. t. 1255. Riv. tetr. t. 41.*

C. Peduncles many-flowered.

- magellanicus*. Peduncles long, many-flowered: stipules broad, heart arrow-shaped: tendrils 2-leaved.
 Magellan's straits. *Lamarck. encycl. 2. p. 700.*

- neruosus*. Peduncles many-flowered, spiked: stipules arrow-shaped: tendrils 2-leaved; leaflets ovate, acute, nerved, quite glabrous.
 Brasil. *Lamarck. encycl.* 2. p. 706.
- sericeus*. Peduncles many-flowered: tendrils 2-leaved, very short, simple; leaflets linear: stipules as long as the leaves.
 Brasil. *Lamarck. encycl.* 2. p. 700.
 Plant filky-downy: stipules like the leaves.
- tomentosus*. Peduncles many-flowered; tendrils 2-leaved, simple and cloven; leaflets linear; legumes filky-downy.
 Bonaria. *Lamarck. encycl.* 2. p. 700.
- tuberosus*. Peduncles many-flowered: tendrils with 2 oval leaflets: stem not winged.
 Europe. *Curt. mag.* t. 111. *Riv. irr.* t. 42.
- rotundifolius*. Peduncles many-flowered: tendrils with 2 roundish leaflets: stem winged.
 Tauria. *Willd.* 3. p. 1088. Stem winged.
- * *pratensis*. Peduncles many-flowered: tendrils quite simple, with 2 lanceolate leaflets.
 Pastures. *Eng. bot.* t. 670. *Curt. Lond. fasc.* 3. t. 44.
- * *sylvestris*. Peduncles many-flowered: tendrils with 2 ensiform leaves: stem winged.
 Hedges. *Eng. bot.* t. 805. *Curt. Lond. fasc.* 6. t. 52.
- * *latifolius*. Peduncles many-flowered; tendrils with 2 elliptic leaves: stem winged.
 Woods. *Eng. bot.* t. 1108. *Mart. flor. russ.* t. 8.
- beterophyllus*. Peduncles many-flowered: tendrils with 2 and 4 lanceolate leaflets: stem winged.
 Europe. *Leaflets* 3-nerved, rigid.
- * *palustris*. Peduncles many-flowered: tendrils with 2 or 3 pair of linear-lanceolate acute leaflets: stipules half arrow-shaped, lanceolate: stem winged.
 Meadows. *Eng. bot.* t. 169. *Fl. Dan.* t. 399.
- incurvus*. Peduncles many-flowered: tendrils with several lance-oblong obtuse mucronate leaflets: stem winged: legumes curved.
 Siberia? *Roth. abb.* 13. tab. 4.
- myrtifolius*. Peduncles many-flowered: tendrils with several oblong-lanceolate rather acute leaflets: stem not winged, square.
 Pennsylvania. *Willd.* 3. p. 1091. Stipules rough-edged.
- venosus*. Peduncles many-flowered: tendrils with many ovate obtuse leaflets: stipules half arrow-shaped, ovate.
 Pennsylvania. *Willd.* 3. p. 1092. Stem not winged.

japonicus. Peduncles many-flowered: tendrils with 4 pair of elliptic acute leaflets: stipules arrow-shaped, clasping the stem, as wide as the leaves.

Japan. *Houtt. Linn. syst.* 8. t. 65. f. 1.

pisiformis. Peduncles many-flowered: tendrils with many elliptic obtuse leaflets: stipules half arrow-shaped, ovate, broader than the leaves.

Siberia. *Linn. dec.* 39. t. 20, *Gmel. Sib.* 4. p. 7. t. 1.

Stem acutely angled; leaves convolute.

1390. *VICIA*. Stigma transversely bearded on the lower side. *Vetch*,

A. Peduncles elongated.

pisiformis. Peduncles many-flowered: petioles many-leaved; leaflets ovate, the lower ones sessile.

Austria; Germany. *Jacq. Austr.* t. 364. *Riv.* t. 52.

caroliniana. Peduncles many-flowered; flowers distant: leaflets lanceolate: stipules very entire: stem glabrous,
Carolina. *Walt. Carol.* 182. Tendrils simple.

pontica. Peduncles many-flowered; flowers crowded: leaflets lanceolate: stipules lance-ensiform, very entire: stem pubescent.

Asia. *Willd. sp. pl.* 3. p. 1094. Tendrils 3-cleft.

dumetorum. Peduncles many-flowered: leaflets reflected, ovate, mucronate: stipules slightly toothed.

France; Germany. *Riv. tetr.* t. 50.

sylvatica. Peduncles many-flowered, longer than the leaves: leaflets elliptic: stipules lunate, with setaceous teeth.

Hedges. *Eng. bot.* t. 79. *Flor. Dan.* t. 277.

americana. Peduncles many-flowered, shorter than the leaves: leaves elliptic-lanceolate: stipules half arrow-shaped, toothed.
Pennsylvania. *Willd. sp. pl.* 3. p. 1096.

variegata. Peduncles many-flowered; flowers imbricate: leaflets elliptic, villous: stipules 2-parted at the base, ovate-lanceolate.

Levant. *Willd. sp. pl.* 3. p. 1096. Tendrils divided.

cassubica. Peduncles many-flowered, shorter than the leaves; leaflets oblong, slightly pubescent: stipules half arrow-shaped, lanceolate, very entire.

France; Germany. *Jacq. Austr.* 3. t. 229. *Crantz.* t. 1. f. 2.

atropurpurea. Peduncles many-flowered, shorter than the leaves: calyx with setaceous very villous divisions: leaflets lanceolate, villous: stipules half arrow-shaped, deeply toothed.

Barbary. *Desfont. atl.* 2. p. 164. Plant villous,

- villosa*. Peduncles many-flowered, longer than the leaves: flowers imbricate: leaflets oblong-ovate, villous: stipules half arrow-shaped, ovate, obtusely toothed at the base.
Germany; Austria. *Roth. Germ. 2. p. 182.*
- polypbylla*. Peduncles many-flowered, longer than the leaves: flowers imbricate: leaflets linear-lanceolate, acute: stipules half arrow-shaped, lanceolate, entire.
Hungary; Barbary. *Desfont. atl. 2. p. 162.*
Stem and leaves villous: stipules not toothed.
- *Cracca*. Peduncles many-flowered, longer than the leaves: flowers imbricate: leaflets lanceolate, rather obtuse, pubescent: stipules half arrow-shaped, linear-subulate, very entire.
Hedges. *Eng. bot. t. 1168. Curt. Lond. fasc. 5. t. 54.*
- senuifolia*. Peduncles many-flowered, longer than the leaves: flowers imbricate: leaflets linear, nearly glabrous, 3-nerved: stipules linear, very entire.
Germany. *Roth. Germ. 2. p. 183.* Stem branched.
- onobrychoides*. Peduncles many-flowered, longer than the leaves: flowers distant: leaflets linear: stipules half arrow-shaped, linear-lanceolate, toothed at the base.
South of Europe. *Allion. pedem. t. 42. f. 1.* Legumes broad.
- biennis*. Peduncles many-flowered: petioles grooved, with about 6 pair of lanceolate glabrous leaflets: stipules half arrow-shaped, petioled.
Siberia. *Gmel. Sib. 4. p. 10. t. 2.*
- altissima*. Peduncles many-flowered: petioles with about 6 pair of elliptic truncate glabrous leaflets: stipules toothed.
Barbary. *Desfont. atl. 2. p. 163.*
- nissoliana*. Peduncles many-flowered: leaflets oblong: stipules entire: legumes villous, ovate-oblong.
Levant. *Leaflets 6 pair, a little villous.*
- benghalensis*. Peduncles many-flowered: leaflets very entire: stipules entire: legumes nearly erect.
Bengal. *Herm. lugdb. tab. 625.*
- canescens*. Peduncles elongated, many-flowered: upper leaves slightly tendrilled: stipules half arrow-shaped, entire: leaflets ovate-oblong, covered with hoary wool.
Syria. *Billard, ic. pl. Syr. 17. t. 7.*
Plant covered with grey wool: legume downy.
- capensis*. Peduncles elongated, many-flowered: leaves not tendrilled, leaflets oblong-lanceolate, silky underneath: stipules lanceolate, entire.
The Cape. *Thunb. prodr. 135. Berg. Cap. 215.*

- pellucida*. Peduncles many-flowered: leaves not tendrilled, longer than the peduncles; leaflets obovate, emarginate: stipules oblong.
The Cape. *Jacq. Schænb. 2. t. 222.* Legumes falcate.
- fruticosa*. Peduncles 2 or 3-flowered: leaves not tendrilled, longer than the peduncles; leaflets elliptic, downy: stipules lanceolate: stem shrubby.
Peru. *Cavan. ic. 1. t. 84.* *Lathyrus tomentosus*.
Stem downy: leaves white downy: flowers yellow.
- Ervilia*. Peduncles 1 or 2-flowered, awned, shorter than the leaves; leaflets oblong, truncate, glabrous: stipules halbert-shaped.
Ervum Ervilia. Hort. ups. 224. Blackw. t. 208. f. 3.
Europe. Stipules with a straight tooth each side.
- biflora*. Peduncles 2-flowered, awned, shorter than the leaves; leaflets linear, tapering to each end: stipules half arrow-shaped.
Barbary. *Desfont. atl. 2. p. 116. t. 119.*
- oroboides*. Peduncles 3 or 4-flowered, shorter than the leaf; leaflets 2 or 3 pair, ovate, pointed: stipules half arrow-shaped, toothed at the base.
Carniola. Petioles ending in a bristle: flowers 3—5.
B. *Flowers axillary, nearly sessile.*
- * *sativa*. Legumes sessile, generally in pairs: leaflets oblong-ovate; the lower ones obtuse with a point: stipules toothed, with a discoloured depressed mark.
Corn fields. *Eng. bot. t. 334. Fl. Dan. t. 522.*
- globosa*. Legumes nearly sessile, solitary: leaflets ovate: stipules 4-toothed, with a discoloured mark.
— *Reiz. obs. 3. p. 39.* Flowers blueish.
- angustifolia*. Legumes sessile, mostly in pairs, spreading: lower leaflets ovate, retuse, emarginate; upper ones linear, very entire at the tip: stipules toothed: seeds globular.
Germany. *Riv. tetr. t. 54. Roth. Germ. 2. p. 186.*
- amphicarpa*. Legumes sessile; the lower ones under-ground: upper leaflets linear, truncate: stipules half arrow-shaped.
Provence. *Clus. exot. t. 88.* Lower leaves obovate.
- pusilla*. Legumes peduncled, solitary: leaflets about 6 pair, lanceolate: stipules half arrow-shaped, entire.
Pennsylvania. *Willd. 3. p. 1106.* Legume small, glabrous.
- * *lathyroides*. Legumes sessile, solitary, glabrous, erect: leaflets 2 or 3 pair; the lower ones retuse: stipules entire: seeds tubercled.
Fallow fields. *Eng. bot. t. 30. Fl. Dan. t. 58.*

- * *lutea*. Legumes sessile, solitary, reflected, hairy: stems diffuse: stipules coloured: banner glabrous.
 Sea coast. *Eng. bot. t. 481.* Flowers yellow.
- * *hybrida*. Legumes sessile, solitary, reflected, hairy: stipules green: banner hairy.
 Glastenbury Tor-hill. *Eng. bot. t. 482. Jacq. hort. t. 146.*
- pannonica*. Legumes peduncled, 2 or 3 together, hairy: banner hairy: stipules lanceolate, with a coloured mark.
 Austria; Hungary. *Jacq. Aust. t. 34.*
- * *laevigata*. Legumes sessile, solitary, reflected, glabrous: stems nearly erect: leaves quite glabrous.
 Sea beach. *Eng. bot. t. 483.* Legume brown.
- sordida*. Legumes nearly sessile, in pairs, reflected, glabrous: leaves oblong-ovate, retuse: stipules with a coloured mark.
 Hungary. *Waldst. et Kitaib. pl. rar. Hung.*
- peregrina*. Legumes nearly sessile, pendulous, glabrous, 4-seeded: leaflets linear, emarginate.
 France. *Pluk. alm. 386. t. 233. f. 6.*
- monantha*. Peduncles 1-flowered, awned: leaflets lanceolate, obtuse: stipules bifid.
 Barbary. *Retz. obs. 3. p. 39.* Plant glabrous.
- * *sepium*. Legumes pedicelled, about 4 together, erect, glabrous: leaflets ovate, very entire; the outer ones gradually lessening.
 Bushes. *Fl. Dan. t. 699. Riv. tetr. irr. t. 57.*
- * *bithynica*. Legumes peduncled, solitary, erect, rough: leaflets 2 pair, elliptic-lanceolate: stipules toothed.
 Hedges. *Jacq. hort. t. 147. Allion. pedem. t. 26. f. 2.*
- platycarpus*. Legumes nearly sessile, solitary, compressed, a little inflated; leaflets ovate, toothed at top: stipules with ciliate teeth.
 — *Roth. abb. 10. t. 1.* Seeds rough at the edge.
- marbonensis*. Legumes nearly sessile, about 4 together, compressed: leaflets ovate, very entire: stipules ciliate, toothed at the base.
 France. *Roth. abb. 10. t. 2. Riv. tetr. t. 40.*
- Faba*. Legumes nearly sessile, 3 together, swelling at the seeds: leaflets ovate, very entire: petioles without tendrils: stipules arrow-shaped, toothed at the base. *Bean.*
 Persia. *Blackw. t. 19. Ludw. ect. t. 159.*
 Wings of the corol with a black silky spot.
- serratifolia*. Legumes nearly sessile, 3 together: leaves & stipules ferrate.
 Austria. *Jacq. Aust. app. t. 8.*

1391. ERVUM. *Calyx* 4-cleft: *stigma* capitate, hairy all over. *Tare.*

* *tetraspermum*. Peduncles 2-flowered: legumes glabrous, 4-seeded: leaflets oblong.

Fields. *Eng. bot. t. 1223. Curt. Lond. fasc. 1. t. 55.*

vicioides. Peduncles about 4-flowered: legumes silky, 2-seeded: leaflets ovate.

Barbary. *Desfont. atl. 2. p. 168. t. 198.*

* *hirsutum*. Peduncles many-flowered: legumes hairy, 2-seeded: leaflets linear, truncate with a point.

Corn fields. *Eng. bot. t. 970. Curt. Lond. fasc. 1. t. 54.*

1392. CICER. *Calyx* 5-parted, as long as the corol; the 4 upper segments incumbent on the banner: *legume* turgid, 2-seeded. *Chick-pea.*

arietinum. Peduncles 1-flowered: seeds globular, gibbous: leaflets ferrate.

Spain; Italy. *Blackw. t. 557. Ludw. efl. t. 53. Riv. t. 19.*

Lens. Peduncles mostly 2-flowered: seeds compressed: leaflets very entire. *Lentil.*

Europe. *Sp. pl. 1093. Ludw. efl. t. 141. Ervum Lens.*

1393. LIPARIA. *Calyx* 5-cleft; the lowest segment elongated: wings of the *corol* 2-lobed below: larger *stamen* with 3 shorter teeth: *legume* ovate.

sphaerica. Flowers in heads: leaves lanceolate, nerved, glabrous.

The Cape. *Leaves* alternate, broad-lanceolate, acute.

capitata. Flowers in erect heads: leaves lanceolate, glabrous, smooth.

The Cape. *Thunb. prodr. 124.*

tomentosa. Flowers in heads: leaves lanceolate, downy.

The Cape. *Thunb. prodr. 124.*

vestita. Flowers in heads: leaves ovate, concave, woolly underneath.

The Cape. *Thunb. prodr. 124.*

graminifolia. Flowers spiked, hairy: leaves linear, glabrous: stem angular, glabrous.

The Cape. *Thunb. prodr. 124. Leaves* 1-nerved.

myrtifolia. Flowers terminal: leaves oblong, glabrous.

The Cape. *Thunb. prodr. 123.*

- laevigata.* Flowers umbelled, involucred: leaves oblong, glabrous.
The Cape. *Leaves* without nerve, mucronate.
- umbellifera.* Flowers somewhat umbelled: leaves lanceolate, villous:
branches umbelled.
The Cape. *Thunb. prodr.* 124.
- villosa.* Flowers fascicled: leaves ovate, villous-downy.
The Cape. *Seba thes.* 1. t. 24. f. 1. 2) f. 2. Gentiana.
- teres.* Flowers racemed, hairy: leaves ovate-oblong, glabrous:
stem round, glabrous.
The Cape. *Thunb. prodr.* 124.
- hirsuta.* Flowers racemed: leaves obovate-oblong, glabrous: stem
hairy.
The Cape. *Thunb. prodr.* 124.
- recta.* Flowers axillary, peduncled: leaves ovate, concave, spread-
ing, downy.
The Cape. *Thunb. prodr.* 124.
- sericea.* Flowers somewhat spiked: leaves ovate, villous, downy.
Syst. Veg. 555.

1394. CYTISUS. *Calyx* 2-lipped; the upper lip
2 cleft, lower 3-toothed: *legume* tapering to
the base.

- Laburnum.* Racemes simple, pendulous: leaflets ovate-oblong.
Switzerland. *Curt. mag.* t. 176. *Jacq. Austr.* t. 306.
This is the common *Laburnum* of the gardens.
- nigricans.* Racemes terminal, erect: calyx hairy, with minute teeth:
leaflets elliptic, hairy underneath.
Austria, &c. *Mill. fig.* t. 117. f. 1. *Jacq. Austr.* t. 387.
- foliosus.* Racemes terminal, erect: calyx villous, with falcate seg-
ments: leaflets ovate-oblong.
Canaries. *Curt. mag.* t. 426. *Pluk. alm.* t. 227. f. 6.
Leaves ternate, small: *racemes* somewhat spiked.
- divaricatus.* Racemes terminal, erect: calyx and legumes scaly-viscid:
leaflets oblong.
Spain. *L'Herit. stirp. ined.* t. 91. *Clus. ic.* 192.
Stems pubescent: *legumes* with truncate bristles.
- ponticus.* Racemes terminal, erect: calyx villous: leaflets elliptic,
obtuse, pubescent: branches grooved, pubescent.
Asia. *Wild.* 3. p. 1120. Branches ascending.
- sessifolius.* Racemes erect: calyx with a triple bracte: floral-leaves
sessile.
Italy. *Curt. mag.* t. 255. Legumes blackish.

- wolgaricus*. Racemes terminal, leaning one way: leaves pinnate, hoary, with roundish-elliptic leaflets.
Russia. Pall. Ross. 1. t. 47. ib. it. 3. t. G. g. f. 3.
Leaflets silvery: flowers very deep yellow.
- bispidus*. Racemes axillary: leaves pinnate, glabrous, with elliptic leaflets: calyx and branchlets bristly.
Guinea. Willd. 3. p. 1121. Leaves elliptic, mucronate.
- sericeus*. Racemes terminal: leaves pinnate; leaflets oblong-lanceolate, silky underneath.
Traquebar. Willd. 3, p. 1121. Legume silky.
- Cajan*. Racemes axillary, erect: leaflets somewhat lanceolate, downy; the terminal one on a long petiole.
Ceylon. Burm. Zeyl. 2. 37. Rheed. Mal. 6. t. 13.
Leaves very soft: legumes with oblique transverse striæ.
- tomentosus*. Racemes lateral, erect: branches round, divaricate: leaflets ovate, downy, drooping: banner crenate.
The Cape. Andrews bot. reposit. tab. 237.
- birsutus*. Peduncles aggregate, nearly terminal: calyx hairy, 3-cleft: leaflets obovate, mucronate, hairy underneath.
Spain; Italy. Jacq. obs. 4. p. 11. tab. 96.
Branches decumbent: legumes linear, hairy.
- capitatus*. Flowers in heads: branches erect, stiff, round, villous: leaflets ovate-elliptic, villous: calyx with a linear bracte.
Austria, &c. Jacq. Austr. 1. t. 33. Calyx tubular, swelling.
- austriacus*. Flowers umbelled, terminal: stems erect: leaflets lanceolate, tapering to both ends, with strigose pubescence.
Austria. Jacq. Austr. 1. t. 21. Mill. fig. t. 107. f. 2.
- leucanthus*. Flowers umbelled, terminal: stems erect: leaflets elliptic, glabrous, acute.
Hungary. Walst. et Kitaib. pl. rar. Hung.
- purpureus*. Flowers axillary, solitary, peduncled: stems procumbent: leaflets obovate, slightly repand: legumes linear, slightly repand.
Carniola. Jacq. Austr. 5. app. t. 48. Scop. Carn. t. 43.
- supinus*. Flowers axillary, mostly in pairs, peduncled: stem decumbent: leaflets obovate, obtuse.
Austria; Siberia. Jacq. Austr. t. 20. Gmel. Sib. 4. t. 6. f. 2.
- biflorus*. Peduncles axillary, mostly in pairs: stems diffusely erect: leaflets oblong, lanceolate.
Hungary. Flowers pendulous.
- triflorus*. Flowers axillary, mostly 3 together, peduncled: calyx campanulate: leaflets obovate, obtuse, hairy.
Barbary; Spain. Legumes very villous.

- proliferus*. Flowers lateral, umbelled: stems erect: leaflets elliptic, erect, silky underneath: calyx woolly.
Teneriffe. *Venerat. descr. pl. nov. t. 13.*
Bractes 2, filiform: corol large, white.
- pauciflorus*. Peduncles 3 or 4-flowered, terminal: leaflets oblong, pubescent underneath: calyx deeply 3-parted.
Persia. *Willd. 3. p. 1126.* Petioles as long as the leaves.
- lotoides*. Flowers in heads: leaflets roundish-elliptic: stem simple, herbaceous, decumbent.
Asia. *Willd. 3. p. 1127.* Calyxes deeply 3-cleft.
- pygmaeus*. Peduncles about 3 together, terminal: leaflets oblong-lanceolate, silky: legumes oblong, villous: stems decumbent.
Asia. *Willd. 3. p. 1127.* Legumes not silky.
- argenteus*. Peduncles mostly 3 together, terminal: leaflets oblong-lanceolate, silky: legumes linear, silky: stems decumbent.
Carniola. *Morif. hist. 2 p. 175. t. 18. f. 2.* Lotus,
Plant hoary, shining: legumes hairy.
- græcus*. Leaves simple, lance-linear: branches angular.
Archiepelago. *Racemes* lateral.

1395. MULLERA. *Calyx* 4-toothed: loment moniliform, with fleshy 1-seeded globules cohering by a thread.

moniliformis MULLERA.

Surinam, *Merian. Surin. t. 35.* Coronilla.
Tree with ferruginous branches: leaflets 5, ovate-oblong, silky underneath: racemes axillary and terminal: flowers nodding.

1396. GEOFFROYA. *Calyx* 5-cleft: drupe ovate: nut compressed.

spinosa. Spinous: leaves oblong, obtuse.
Brasil. *Jacq. Amer. t. 18. f. 62. pict. t. 262. f. 58.*
Tree thorny: leaves pinnate: racemes axillary.

surinamensis. Unarmed: leaflets oblong, obtuse, emarginate.
Surinam. *Bondst. monogr. p. 13. fig.*

inermis. Unarmed: leaflets lanceolate. *Bastard Cabbage-tree.*
Jamaica. *Woodw. t. 112. Philos. Transf. 67. p. 512. t. 10.*

1397. DIPHYSA. *Calyx* 5-cleft, unequal: *legume* 1-celled, many-seeded, compressed, surrounded each side with a large inflated longitudinal bladder.

*carthagi-
nensis.*

DIPHYSA.

Carthageria. *Jacq. Amer. t. 181. f. 51. pict. t. 261. f. 59.*

Shrub with pinnate leaves; leaflets oblong, emarginate: *peduncles* axillary, 2 or 3-flowered: *flowers* yellow.

1398. ROBINIA. *Calyx* 4-cleft; the upper division a little divided: *legume* gibbous, elongated.

Pseudacacia Racemes with 1-flowered pedicels: leaves unevenly pinnate: stipules spinous: legumes smooth.

North America. *Pluk. alm. 9. t. 4. Dubam. arb. 2. t. 42.*

Tree spinous: racemes pendulous, white.

viscosa.

Racemes with 1-flowered pedicels: leaves unevenly pinnate: branches and legumes glandular-viscid.

Carolina. *Curt. mag. t. 560. R. glutinosa.*

Racemes axillary, erect: *flowers* reddish-white.

violacea.

Racemes with 2-flowered pedicels: calyx truncate: leaves unevenly pinnate: stem unarmed.

Carthageria. *Jacq. Amer. t. 77. f. 40. pict. t. 262. f. 61.*

striata.

Racemes with 1-flowered pedicels: leaves unevenly pinnate, pubescent underneath: stem unarmed.

Caraccas. *Willd. 3. p. 1132. Flowers* yellow.

hispida.

Racemes axillary: leaves unevenly pinnate: stem unarmed, bristly.

America. *Curt. mag. t. 311. Catesb. Carol. 3. t. 20.*

Branchlets, peduncles and calyxes bristly: *flowers* rosy.

sepium.

Racemes with mostly 2-flowered pedicels: leaves unevenly pinnate, leaflets pointed: stem unarmed.

Carthageria. *Jacq. Amer. t. 179. f. 101. pict. 260. f. 40.*

squamata.

Racemes with 1-flowered pedicels: leaves unevenly pinnate, leaflets oval with a spinous point: petioles unarmed.

St. Thomas Island. *Vahl. symb. 3. p. 88. t. 69.*

uliginosa.

Racemes with 3-flowered pedicels: leaves ternate, oblong, pointed: branches unarmed, climbing.

East Indies. *Willd. 3. p. 1133. Flowers* whitish.

scandens.

Racemes with 1-flowered pedicels: leaves unevenly pinnate; leaflets oblong, pointed: branches unarmed, climbing.

Guiana. *Aubl. Gui. 2. t. 308.*

- tomentosa.* Racemes with 1-flowered pedicels: leaves unevenly pinnate, downy: stem unarmed.
Guiana. *Aubl. Gu.* 2. t. 307.
- florida.* Peduncles simple, 1-flowered: leaves abruptly pinnate: petioles and stipules unarmed.
St. John's Island. *Vahl. symb.* 3. p. 89. t. 70.
- Caragana.* Peduncles simple, numerous: leaves abruptly pinnate in about 4 pairs: petioles unarmed: legumes cylindrical.
Siberia. *Pall. Ross.* 63. t. 42. (*the middle figure.*)
- Aliagana.* Peduncles simple, solitary: leaves abruptly pinnate, in about 8 pairs: stipules spinescent: legumes compressed.
Siberia. *Pall. Ross.* 69. t. 42. (*the outside figures.*)
Leaflets obovate, emarginate: peduncles solitary.
- jubata.* Peduncles simple: leaves abruptly pinnate, in many pairs; leaflets lanceolate, pubescent: petioles filiform, spinescent: branches villous.
Siberia. *Pall. nov. act. petrop.* 10. p. 370. t. 6.
- tragacanthoides.* Peduncles simple: leaves abruptly pinnate, in 2 pairs; leaflets oblong-lanceolate, filky: stipules and petioles spinescent.
Siberia. *Pall. nov. act. petrop.* 10. p. 371. t. 7.
- spinosa.* Peduncles simple: leaves abruptly pinnate, about 4 pairs; leaflets wedge-shaped, glabrous: stipules and petioles spinescent.
Siberia. *Pall. Ross.* 1. t. 44. *it.* 3. *app.* t. E. e. f. 2, 3.
- Halodendron.* Peduncles 3-flowered: leaves abruptly pinnate, in 2 pairs, filky: petioles spinescent, permanent: legumes inflated.
2. Leaves glabrous. *L'Herit. stirp. nov.* 162.
Siberia. *Pall. Ross.* 1. t. 46. *it.* 3. *app.* n. 117. t. W.
- Chamlagu.* Peduncles simple: leaves abruptly pinnate, in 2 pairs; leaflets obovate, glabrous: stipules and petioles spinescent.
China. *L'Herit. stirp. nov.* 161. t. 77.
- frutescens.* Peduncles simple: leaves in fours, slightly petioled, ending in a soft spine.
Siberia. *Pall. Ross.* 1. p. 69. t. 43.
- pygmaea.* Peduncles simple: leaves in fours, sessile.
Siberia. *Pall. Ross.* 1. p. 71. t. 45. *Amm. rub.* t. 35.

1399. COLUTEA. *Calyx* 5-cleft: *legume* inflated, opening on the upper suture at the base.

Bladder-Senna.

A. *Shrubby.*

- arborescens.* Leaflets elliptic, retuse: banner with abbreviated gibbosities: stem shrubby.
Siberia. *Pall. Ross. 1. p. 69. t. 43. Curt. mag. t. 81.*
- cruenta.* Leaflets obovate, emarginate, glaucous: banner with very minute obtuse gibbosities: legumes open at top: stem shrubby.
Germany, &c. *Cavan. ic. 4. t. 307. Comm. rar. t. 11.*
- Pocockii.* Leaflets roundish-elliptic, very obtuse with point: banner with elongated ascending gibbosities: stem shrubby.
Levant. *Mill. fig. t. 100. C. istria.*
- frutescens.* Leaflets oblong, retuse, hoary underneath: stem shrubby: branches silky-downy.
The Cape. *Curt. mag. t. 181. Miller fig. t. 99.*
- rigida.* Leaflets lanceolate, glabrous: stem shrubby, erect, glabrous.
The Cape. *Thunb. prodr. 134.*
- obtus.* Leaflets linear: stem shrubby, erect: flowers racemed, reflected.
The Cape. *Thunb. prodr. 134.*

B. *Herbaceous.*

- linearis.* Leaflets linear, acute: stem herbaceous, erect: racemes terminal, incurved.
The Cape. *Thunb. prodr. 135.*
- herbacea.* Leaflets linear, emarginate, glabrous: stem weak, herbaceous: racemes axillary.
The Cape. *Comm. hort. 2. t. 44. Volk. Norib. t. 118.*
- perennans.* Leaflets oblong, pubescent: stem herbaceous, erect: racemes terminal.
The Cape. *Jacq. hort. 3. p. 5. t. 3.*
- prostrata.* Leaflets lanceolate, villous: stem herbaceous, diffuse: peduncles axillary, 1 or 2-flowered.
The Cape. *Thunb. prodr. 134.*
- excisa.* Leaflets ovate, cut: stem herbaceous, decumbent: racemes terminal.
The Cape. *Thunb. prodr. 134.*
- vesicaria.* Leaflets ovate: stem herbaceous, decumbent, villous: legumes orbicular, inflated.
The Cape. *Thunb. prodr. 135.*

tomentosa. Leaflets ovate, hoary: stem herbaceous, downy: flowers racemed.

The Cape. *Thunb. prodr.* 135.

1400. GLYCYRRHIZA. *Calyx* 2-lipped; the upper lip 3-parted, lower undivided: *legume* ovate, compressed. *Liquorice.*

echinata. Legumes prickly: flowers in heads: stipules lanceolate: leaflets glabrous, oblong, mucronate.

Tartary. *Jacq. hort.* t. 55. Petiole margined.

fætida. Legumes prickly: flowers racemed: stipules lanceolate: leaflets oblong, mucronate, covered underneath with small appressed cinereous scales.

Barbary. *Desfont. atl.* 2. p. 176. t. 199.

glandulifera. Legumes clothed with gland-bearing bristles: flowers racemed: stipules withering: leaflets oblong-lanceolate, emarginate, glutinous and pubescent underneath.

Hungary. *Waldst. et Kitaib. pl. rar. Hung.* 1. t. 21.

glabra. Legumes glabrous: flowers racemed: stipules none: leaflets ovate, somewhat retuse, a little glutinous underneath.

South of Europe. *Woodw. t.* 167. *Ludw. & R.* t. 64.

asperrima. Legumes glabrous, moniliform: raceme terminal: stipules lanceolate: leaflets obovate, emarginate, rough underneath: stem rough.

Siberia. *Pall. it.* 1. *app. t. M. f.* 3. and 3. *app. t. G. g. f.* 1, 2.

hirsuta. Legumes hairy: leaflets oblong-lanceolate: flowers racemed.

Levant. *Gmel. it.* 1. p. 155.

1401. CORONILLA. *Calyx* 2-lipped; the upper lip with 2 conjoined teeth, lower with 3: *banner* hardly longer than the wings: *loment* cylindrical, jointed, straight.

A. *Flowers racemed.*

grandiflora. Racemes about 3-flowered: leaflets oblong, emarginate, glabrous: *loment*s filiform, straight, compressed: stem arboreous.

Æschynomene grandiflora. *Sp. pl.* 1060.

East Indies. *Rumph. amb.* 1. t. 76. *Rheed. Mal.* 1. t. 51.

Peduncles axillary: flowers very large, white.

- coccinea.* Racemes about 3-flowered: leaflets oblong, emarginate, mealy: lomentis filiform, a little compressed and bowed: stem arboreous.
East Indies. *Rumph. amb.* 1. p. 190. t. 77. Flowers red.
- occidentalis.* Racemes few-flowered: leaflets elliptic: lomentis cylindrical, filiform: stem shrubby.
West Indies. *Plum. spec.* 19. ic. 125. f. 1.
- Sesban.* Racemes many-flowered: leaflets linear, obtuse with a point; the midrib of the leaves smooth: lomentis filiform, cylindrical: stem shrubby.
Æschynomene *Sesban.* *Sp. pl.* 1061. *Alp. Ægypt.* t. 82.
- aculeata.* Racemes few-flowered: leaflets linear, obtuse with a point; the midrib of the leaves prickly: lomentis filiform, cylindrical: stem herbaceous.
Malabar. *Jacq. ic. rar.* 5. t. 564. *Rheed. Mal.* 6. t. 27.
- cannabina.* Peduncles 1-flowered, solitary or in pairs: leaflets linear, obtuse with a point; the midrib of the leaves smooth: lomentis filiform, compressed: stem herbaceous.
Malabar. *Retz. obs.* 5. p. 26. *Æschynomene.*
- piñta.* Racemes many-flowered, pendulous: leaflets linear, obtuse: lomentis filiform, cylindrical, moniliform: stem herbaceous.
New Spain. *Cavan. ic.* 4. t. 314. *Æschynomene*,
Corol yellow, with black dots on the banner.
- virgata.* Racemes many-flowered: leaflets elliptic: lomentis linear-ensiform, compressed, 4-sided: stem herbaceous.
New Spain. *Cavan. ic.* 3. t. 293. *Æschynomene.*
- B. Flowers umbelled.
- Emerus.* Shrubby: peduncles 2 or 3-flowered: claws of the corol thrice as long as the calyx: stem angular.
Scorpion Senna.
South of Europe. *Curt. mag.* t. 445. *Mill. fig.* t. 132. f. 1.
- juncea.* Shrubby: leaflets 5 and 3, linear-lanceolate, somewhat fleshy, obtuse.
South of France. Flowers bright yellow.
- valentina.* Shrubby: leaflets about 9: stipules nearly orbicular.
Spain; Italy. *Curt. mag.* t. 185. *Mill. fig.* t. 107.
- glauca.* Shrubby: leaflets, 7, very obtuse: stipules lanceolate.
France. *Mill. fig.* t. 289. f. 2. Branches red.
- squamata.* Herbaceous: leaflets 11, obovate, somewhat downy: stipules lanceolate: lomentis with branny scales.
Spain. *Cavan. ic.* 1. t. 153. Lomentis pendulous.

- coronata*. Somewhat shrubby: leaflets 9, elliptic, the innermost approaching the stem: stipules opposite the leaves, lanceolate.
South of Europe. *Jacq. Austr. t. 95. Scop. Carn. t. 44.*
- minima*. Somewhat shrubby, procumbent: leaflets 9, ovate: stipule opposite the leaf, emarginate: legumes angular, knotty.
South of Europe. *Jacq. Austr. t. 271.*
- pentaphylla*. Shrubby: leaflets about 5, wedge-form, emarginate: stipules ovate.
Barbary. *Desfont. atl. 2. p. 171. Willd. 3. p. 1152.*
- argentea*. Shrubby: leaflets 11, filky; the odd one larger.
Crete. *Mill. fig. 1. 289. f. 1. Flowers yellow.*
- cappadocica*. Herbaceous: leaflets 9, inversely heart-shaped: stipules roundish-wedge-form.
Cappadocia. *Willd. 3 p. 1152. Leaves glaucous beneath.*
- vaginalis*. Somewhat shrubby: leaflets about 11, obovate: stipules 1-leaved, sheathing, emarginate, opposite the leaves.
Italy. *Lamarck. encycl. 2. p. 121.*
- securidaca*. Herbaceous: leaflets numerous, oblong-wedge-form: loment compressed, ensiform. *Hatchet-Vetch.*
Spain. *Mill. dict. fig. tab. 232.*
- varia*. Herbaceous: leaflets numerous, lanceolate, glabrous: loment cylindrical, erect.
Europe. *Curt. mag. t. 258. Riv. tetr. t. 94.*
- globosa*. Herbaceous: leaflets numerous, elliptic: umbels globular: loment cylindrical, pendulous.
Crete. *Willd. 3 p. 1154. Flowers white.*
- cretica*. Herbaceous: leaflets 15, wedge-shaped, retuse: loment cylindrical, erect, 5 together.
Crete. *Jacq. hort. t. 25. Flowers sanguineous.*
- parviflora*. Herbaceous: leaflets wedge-shaped, emarginate: loment cylindrical, curved, 5 together: stem bristly.
Crete. *Willd. 3. p. 1155. Flowers yellow.*
- scandens*. Stem climbing, flaccid.
North America. *Plum spec. 19. ic. 107. f. 3.*

1402. ORNITHOPUS. *Calyx* tubular, with 5 nearly equal teeth: loment jointed, cylindrical, curved. *Bird's-foot.*

- * *perpusillus*. Leaves pinnate: flowers in heads, supported by a bracte: loment cylindrical, incurved.
Pastures. *Eng. bot. t. 369. Curt. Lond. fasc. 6. t. 53.*

compressus. Leaves pinnate: flowers in heads, supported by a bracte: loment compressed, recurved, wrinkled.

Italy; Sicily. *Plant downy*: bracte pinnate.

durus. Leaves pinnate: flowers in heads, naked: loment cylindrical, recurved.

Spain. *Cavan. ic. 1. t. 41. f. 2.* Leaves glabrous,

scorpioides. Leaves ternate, nearly sessile; the odd one very large, Spain; Italy. *Cavan. ic. 1. t. 37. Riv. tetr. t. 96.*

tetraphyllus. Leaves in fours: flowers solitary.

Jamaica. *Sloane Jam. 1. p. 186. t. 116. f. 3.*

1403. HIPPOCREPIS. Calyx 5-toothed: loment jointed, compressed, with several deep notches on one of its sutures, curved. *Horse-shoe Vetch.*

unisiliquosa. Loment sessile, solitary, erect.

Italy; Switzerland. *Mill. fig. t. 278. f. 1. Riv. tetr. t. 98.*

multisiliquosa. Loment peduncled, crowded, circular, lobed on the margin.

Spain; Italy. *Mill. fig. t. 278. f. 2. Col. exp. 1. t. 300.*

balearica. Loment peduncled, crowded, glabrous, lobed on the outer margin: leaves and calyx a little hairy: stems 2-edged.

Minorca. *Curt. mag. t. 427. Jacq. ic. 1. t. 149.*

**comosa*. Loment peduncled, crowded, curved, rough, sinuate on both margins.

Chalk hills. *Eng. bot. t. 31. Jacq. Austr. 5. t. 431.*

barbata. Loment peduncled, straight, bearded: spike oblong, terminal.

Cochinchina. *Lour. Cochinch. 453.*

Leaves ternate, ovate: flowers purple: loment erect, flat, with several notches on the outer suture.

1404. SCORPIURUS. Calyx inflated, 5-toothed. loment divided by transverse partitions, revolute cylindrical. *Caterpillar*

vermiculata. Peduncles 1-flowered: loment covered every where with obtuse scales.

South of Europe. *Moris. 2. sect. 2. t. 11. f. 3.*

purpurea. Peduncles 1-flowered: loment very short, mucicate.

Barbary. *Desfont. atl. 2. p. 174.*

Stem and leaves hairy: corol purple: loment grooved,

muricata. Peduncles 2-flowered: loment with obtuse prickles outwardly.

South of Europe. *Morif. hist. 2. sect. 2. t. 11. f. 4.*

sulcata. Peduncles 2 or 3-flowered: loment with distinct acute spines outwardly.

South of Europe. *Desfont. atl 2. p. 1. f. 4. Mill. fig. t. 230.*

subvillosa. Peduncles 3 or 4-flowered: loment with crowded acute spines outwardly.

South of Europe. *Morif. 2. sect 2. t. 11. f. 2.*

1405. SMITHIA. *Calyx* bifid, 2-lipped: *stamina* divided into 2 equal bodies: *loment* with distinct 1-seeded joints, connected on one side by the style.

sensitiva. SMITHIA.

East Indies. *Aiton Hort Kew 3. p. 496 t. 13.*

Stem decumbent: *leaves* abruptly pinnate; leaflets obovate-oblong, bristly round the margin: *racemes* axillary: *calyx* with bristly tubercles: *corol* yellow.

1406. ÆSCHYNOMENE. *Calyx* 2-lipped: *loment* compressed, with truncate 1-seeded joints.

arborea. *Stem* arboreous, smooth: joints of the loment half heart-shaped, glabrous.

India. *Flowers* axillary, 2 or 3 together, large.

aristata. *Stem* arboreous, spinous: leaflets roundish, emarginate with a point: peduncles 3-flowered.

St. Domingo. *Jacq. hort. schænb. 2. p. 59 t. 237.*

Corol yellow: *loment* rough with tubercles.

sensitiva. *Stem* shrubby, smooth: leaflets linear, obtuse: *racemes* few-flowered: loment smooth.

West Indies. *Plum. ic. 149. f. 2. Hedysarum.*

aspera. *Stem* herbaceous, rough below: leaflets linear, obtuse: *racemes* compound, bristly: joints of the loment rough in the middle.

East Indies. *Breyn. cent. 51. t. 52. Mimosa.*

bispida. *Stem* herbaceous, bristly: leaflets linear, obtuse: *racemes* simple: loment bristly.

North America. *Willd. 3. p. 1163.*

americana. *Stem* herbaceous, bristly: leaflets linear-falcate, pointed: *racemes* simple: joints of the loment roundish, distinct, glabrous.

Jamaica. *Shæne Jam. 1. t. 118. f. 3. Hedysarum,*

- indica.* Stem herbaceous, smooth: loment smooth, swelling on one side, obtuse: leaflets obtuse.
India. *Rumph. amb. 4. t. 24. Rheed. Mal. 9. t. 18.*
- diffusa.* Stem herbaceous, smooth: leaflets linear, obtuse: peduncles 1-flowered: loment repand on one side; the joints rough in the middle.
Tranquebar. *Willd 3. p. 1164.* Stems diffuse.
- pumila.* Stem herbaceous, smooth: leaflets pointed: loment serrate on one side, rough in the middle.
India. *Rheed. Mal. 9. t. 21.* Leaflets linear.

1407. STYLOSANTHES. *Calyx* tubular, very long, bearing the corol: *germ* under the corol: *loment* 1 or 2-jointed, hooked.

- procumbens.* Leaflets ovate-lanceolate, glabrous: spikes many-flowered: bractes smooth, mucronate: stem procumbent, pubescent.
Hedyсарum hamatum. Sp. pl. 1056.
Jamaica. *Sloane Jam. 1. t. 119. f. 2. Anonis.*
- viscosa.* Leaflets oblong-ovate, viscid-pubescent both sides, ciliate: spikes few-flowered: bractes ciliate: stem erect, viscid-pubescent.
Jamaica. *Sloane Jam. 1. t. 119. f. 1.*
- mucronata.* Leaflets oblong-ovate, slightly pubescent underneath, ciliate: spikes many-flowered: bractes ciliate: stem erect, pubescent.
Ceylon. *Burm. Zeyl. t. 106. f. 2. Trifolium.*
Plant not viscid: *petals* white-downy.
- elatio.* Leaflets lanceolate, glabrous: spikes few-flowered: bractes lanceolate, ciliate: stem erect, with a lateral hairy line.
Trifolium biflorum. Sp. pl. 1088.
Carolina. *Swartz Act. Holm. 1789. p. 283. t. 11. f. 2.*
- guianensis.* Leaflets lanceolate, pointed, longer than the petiole: spikes many-flowered, villous: stem erect, hairy.
Guiana. *Aubl. Gui. 2. t. 309. Trifolium.*

1408. HALLIA. *Calyx* 5-parted, regular: *legume* 1-seeded, 2-valved.

- alata.* Leaves oblong, glabrous: stipules decurrent: stem winged.
The Cape. *Tbunb. prodr. 131.*

- flaccida.* Leaves lanceolate, mucronate, glabrous: peduncles 1-flowered, as long as the leaves.
The Cape. *Thunb. prodr.* 131.
- virgata.* Leaves lanceolate, mucronate, glabrous: peduncles 1-flowered, shorter than the leaves.
The Cape. *Thunb. prodr.* 131.
- cordata.* Leaves hearted, oblong, acute, glabrous: peduncles 1-flowered, as long as the leaves.
The Cape. *Jacq. hort. schænb.* 3. t. 296. Hedyfarum?
Stems 3 fided, decumbent: corol violet.
- Asarina.* Leaves hearted, roundish, mucronate, villous: peduncles 1-flowered, as long as the leaves.
The Cape. *Thunb. prodr.* 131. Stem filiform.
- hirta.* Leaves hearted, roundish, ciliate: flowers nearly sessile: stem without stipules.
Tranquebar. *Pluk. amalib.* 131. t. 454. f. 8.
Leaves with pellucid dots: flowers yellow.
- imbricata.* Leaves heart-ovate, convolute, imbricate: flowers axillary, sessile.
The Cape. *Thunb. nov. atl. upf.* 6. t. 1. f. 2. Hedyfarum.
Leaves ciliate on the margin and midrib.
- fororia.* Leaves roundish, kidney-form, emarginate, glabrous: flowers racemed.
Hedyfarum fororium. *Mant.* 27. Stem 3-fided,
East Indies. *Burm. Ind.* 161. t. 50. f. 1. Glycine.

1409. HEDYSARUM. Calyx 5-cleft: keel of the corol transversely obtuse: loment jointed, the joints compressed and 1-seeded.

A. Leaves simple.

- Albagi.* Leaves simple, lanceolate, obtuse: stem shrubby, spinous.
Persia. *Gmel. it.* 2. t. 29. *Rauw. it.* t. 94.
From this shrub Manna is procured, in the East.
- plurifolium.* Leaves simple, lanceolate, acute: stem unarmed: stipules scarious.
India. *Pluk. amalib.* t. 443. f. 5. *Pet. gaz.* t. 11. f. 12.
- ramineum.* Leaves simple, linear-lanceolate: stipules scarious: racemes naked: pedicels 2-flowered: teeth of the calyx bearded.
Tranquebar. *Wendl. hort. berrenbusf.* 1. t. 5.
Shrub with stiff jointed stems: corol purple.
- lunaceum.* Leaves simple, lanceolate: stipules and calyx scarious: laments wrinkled.
Arabia Felix. *Vabl. symb.* 1. p. 54. Stems glabrous.

- rugosum.* Leaves simple, linear-lanceolate: stipules and calyx scarious: stem nearly erect, hairy: joints of the loment transversely wrinkled.
Guinea. *Willd. 3. p. 1172.* Branches with a hairy line.
- nummulari-folium.* Leaves simple, obovate-roundish: stipules scarious, shorter than the petiole: loment glabrous, reticulate.
East Indies. *Petitv. gaz. 41. t. 26. f. 4.* Onobrychis.
- moniliferum* Leaves elliptic-roundish, pubescent underneath: stipules scarious, longer than the petiole: joints of the loment globular, pubescent.
East Indies. *Burm. Ind. t. 52. f. 3.*
Stem villous: leaves pubescent underneath.
- styracifolium.* Leaves simple, heart-orbicular, retuse, glabrous above, downy underneath.
Asia. Plant villous: stipules lanceolate.
- reniforme.* Leaves simple, kidney-form: stem round.
India. *Burm. Ind. t. 52. f. 1.* Stipules minute.
- velutinum.* Leaves simple, ovate, downy: stipules and bractes filiform: loment downy.
North America. *Willd. 3. p. 1174.* Branches pubescent.
- gangeticum.* Leaves simple, ovate, acute, stipuled.
East Indies. *Burm. Zeyl. t. 49. f. 2. Rumph. amb. 6. t. 66.*
- maculatum.* Leaves simple, ovate, obtuse, spotted.
East Indies. *Dill. elib. 170. t. 141. f. 168.*
- latebrosum.* Leaves simple, ovate, ferrulate: loment concealed by a vaulted supine scarious bracte.
East Indies. *Petitv. gaz. t. 30. f. 11.* Loment 1-seeded.
- vaginale.* Leaves simple, heart-oblong: petioles simple: stipules sheathing.
East Indies. *Burm. Zeyl. 104. t. 49. f. 1.* Genista.
- triquetrum.* Leaves simple, heart-oblong, petioles winged: branches 3-sided.
East Indies. *Burm. Zeyl. t. 81. Burm. Ind. t. 52. f. 2.*
- strobiliferum.* Leaves simple: bractes of the cones inflated, heart-shaped, obtuse.
East Indies. *Fl. Zeyl. 287. t. 3.* Bractes large.
- Vespertilionis.* Leaves simple and ternate; the middle one with 2 spreading lanceolate lobes: joints of the loment flexuously plaited.
Cochinchina, *Jacq. ic. rar. 3. t. 566.*

B. With a single pair of leaflets.

- diphyllum.* Leaflets ovate-lanceolate: bractes in pairs, slightly ciliate: joints of the loment pubescent, prickly.
East Indies. *Pluk. alm. t. 246. f. 6. Reed. Mal. 9. t. 82.*

conjugatum. Leaflets ovate: bractes in pairs, ciliate: joints of the loment glabrous, prickly.

Ceylon. *Burm. Zeyl. t. 50. f. 1. Pluk. phyt. t. 102. f. 1.*

C. *Leaves ternate.*

pulchellum. Leaves ternate: bractes in pairs, conjugate, orbicular, marked with lines.

India. *Burm. Zeyl. 116 f. 52. Pluk. amalth. t. 433. f. 7.*

spartium. Leaves ternate and simple, linear-lanceolate, a little downy: peduncles 1-flowered, axillary, mostly in pairs: loment bristly.

East Indies. *Burm. Ind. 166. t. 51. f. 2.*

lineatum. Leaves ternate, oblong, marked with lines: stipules lanceolate: racemes axillary, nodding: loment 1-seeded.

Ceylon. *Burm. Ind. 167. t. 53. f. 1. Loment of 1 joint.*

diffusum. Leaves ternate, oblong-ovate, hoary underneath: stipules obliquely hearted: stem ascending, 3-sided: racemes erect, panicled: loment of many joints, flat, repand, hairy.

Tranquebar. *Willd. 3. p. 1180. Racemes erect.*

incanum. Leaves ternate, ovate, pointed, hoary underneath: stem round, branched, erect: racemes terminal, erect: loment declined, hairy.

Jamaica. *Plum. ic. 149. f. 1. Stems glabrous.*

dichotomum. Leaves ternate, elliptic, obtuse, pubescent, hoary underneath: stipules ovate: stem forked, 3-sided: racemes elongated: loment repand, hairy.

Tranquebar. *Willd. 3. p. 1181. Stem pubescent.*

tomentosum. Leaves ternate, downy underneath: stem angular, downy: racemes axillary.

Japan. *Thunb. Jap. 288. Leaves glabrous above.*

retroflexum. Leaves ternate, roundish-ovate, silky-downy underneath: racemes axillary, erect, elongated: loment reflected, repand.

India. *Peduncles pendulous, filiform.*

striatum. Leaves ternate, oblong, stipuled: stem herbaceous: flowers axillary, solitary.

Japan. *Thunb. Jap. 289. Stipules ovate, appressed.*

sericeum. Leaves ternate, emarginate, villous: stem shrubby, erect: flowers axillary, solitary.

Japan. *Thunb. Jap. 289. Stipules not appressed.*

umbellatum. Leaves ternate, roundish-ovate, hairy: branches 3-sided, hairy: peduncles umbelled, axillary, shorter than the petiole: stem shrubby.

Ceylon. *Jacq. hort. schænb. 3. t. 297. Burm. Zeyl. t. 51.*

- australe.* Leaves ternate, oblong, silky: branches 3-sided, silky: peduncles umbelled, axillary, shorter than the petiole: stem shrubby.
New Caledonia. *Willd. 3. p. 1183.* Plant silky.
- squarrosum.* Leaves ternate, ovate, nerved and downy underneath: flowers spiked, reflected.
The Cape. *Thunb. prodr. 132.*
- biarticulatum.* Leaves ternate, oblong: stem somewhat shrubby, branched: raceme terminal: lomentis 2 jointed, strigose.
East Indies. *Burm. Zeyl. 114. t. 50. f. 2.*
Leaves obtuse, with scattered close hairs beneath.
- lappaceum.* Leaves ternate, inversely heart-shaped: stem somewhat shrubby, branched, divaricate: flowers axillary, solitary: lomentis 2-jointed, with hooked rigid bristles.
Arabia Felix. *Vahl symb. 1. p. 54.* Leaves villous.
- heterocarpum.* Leaves ternate, elliptic, obtuse, hoary underneath: racemes axillary: lomentis rough; the lower ones of 1 joint, upper of many.
East Indies. *Burm. Zeyl. t. 53. f. 1.* Stipules setaceous.
- ascendens.* Leaves ternate, roundish, pubescent underneath: stem round: branches declined, ascending, hairy: racemes simple, erect, axillary.
Jamaica. *Sawartz prodr. 106.* Bractes imbricate.
- mauritianum.* Leaves ternate, pubescent underneath; lower leaflets roundish, emarginate; upper ones oblong: raceme terminal: lomentis downy-rough, repand below, nodding.
Mauritius Island. *Willd. 3. p. 1185.* Leaves glabrous.
- gyrans.* Leaves ternate, oval-lanceolate, obtuse; the lateral ones very minute: panicle terminal: lomentis repand below, roughish, pendulous. *Moving Plant.*
Bengal. *Nat. miscel. t. 70. Darwin bot. Gard. 1. p. 288. fig.*
Leaves glabrous: *petioles* ciliate: *flowers* red and blue.
This plant has a constant and voluntary motion, consisting in the alternate meeting and receding of the leaflets; and this motion seems totally unconnected with any external irritability.
- trigonum.* Leaves ternate, ovate, acute, hairy: stem climbing, 3-sided: racemes very long, axillary: lomentis tortuous, inflected.
Jamaica. *Sawartz prodr. 107.* Lomentis with hooked hairs.
- canadense.* Leaves ternate, oblong-lanceolate: stipules filiform: flowers racemed: joints of the lomentis obtusely triangular, bristly.
Virginia; Canada. *Corn. Canad. t. 45. Morif. f. 2. t. 11. f. 9.*

- canescens.* Leaves ternate, roundish, pubescent underneath: stipules ovate, pointed: stem angular, ciliate, bristly: racemes panicled: joints of the loment triangular, bristly.
Virginia. *Pluk. alm.* 1. 308. f. 5? Onobrychis.
- repandum.* Leaves ternate, repand-crenate: racemes terminal, elongated.
Arabia Felix. *Vabl. symb.* 2. p. 82. Leaves villous.
- capitatum.* Leaves ternate, roundish-obovate, obtuse, downy underneath: stipules lanceolate: racemes axillary: loment linear-cylindrical, jointed, pendulous.
Ceylon. *Pluk. amalib.* t. 433. f. 3. *Burm. Ind.* 1. 54. f. 1.
Stems whitish: racemes in heads: calyx glabrous.
- marilandicum.* Leaves ternate, oblong, a little villous underneath: stipules subulate: racemes panicled: loment of 3 joints; the joints rhombic, reticulate, a little hairy.
Carolina; Virginia. *Dill. elth.* 174. t. 144. f. 171.
- obtusum.* Leaves ternate, ovate, obtuse, somewhat hearted at the base: stipules lance-subulate: panicle terminal: joints of the loment half orbicular, reticulate, bristly.
Pennsylvania. *Willd.* 3. p. 1190. Loment of 3 joints.
- supinum.* Leaves ternate, oblong, rather obtuse, shining above, hoary underneath: stipules ovate, pointed: raceme simple, terminal: joints of the loment half orbicular, hoary.
Jamaica. *Sloane Jam.* 1. p. 185. t. 118. f. 2.
- tortuosum.* Leaves ternate, oval-oblong, obtuse, nearly glabrous: racemes erect, axillary: loment tortuous, compressed, pubescent.
West Indies. *Sloane Jam.* 1. p. 184. t. 116. f. 2.
Lateral leaflets less, obtuse with a point.
- molle.* Leaves ternate, ovate, tapering, villous underneath: racemes terminal: pedicels about 3 together: loment tortuous.
Santa Cruz. *Vabl. symb.* 2. p. 83.
Loment with the last joint much larger.
- microphyllum.* Leaves ternate, ovate, villous: stem shrubby, erect, glabrous: flowers terminal, panicled.
Japan. *Thumb. Jap.* 284. Leaves glabrous above.
- viridiflorum.* Leaves ternate, ovate-oblong, rough underneath: stipules lance-cuspidate: racemes panicled, bracted: loment rough.
Virginia. *Pluk. alm.* 286. t. 308. f. 2. Onobrychis.

- racemosum*. Leaves ternate, oblong: stipules glabrous: stem shrubby, erect: racemes axillary, erect, very long: laments glabrous.
Japan. *Thunb. Jap.* 285. Leaves hoary underneath.
- frutescens*. Leaves ternate, lance-oblong, obtuse, silky underneath: stipules subulate: racemes axillary, ovate, shorter than the leaf: laments of one hairy joint shorter than the calyx.
North America. *Young branches* silky pubescent.
- birtum*. Leaves ternate, roundish-elliptic: stipules subulate: racemes axillary, oblong, longer than the leaves, hairy: laments of one hairy joint.
North America. *Leaflets* obtuse.
- trichocarpum*. Leaves ternate, lanceolate, obtuse, strigose underneath: stipules filiform: racemes nearly in heads: laments 1-jointed, villous, shorter than the calyx.
Siberia. *Willd.* 3. p. 1194. Laments ovate, acute.
- junceum*. Leaves ternate, linear, tapering to the base, strigose and pubescent underneath: racemes axillary: laments of 1 ovate smooth joint as long as the calyx.
Siberia; Tartary. *Linn. dec.* 1. t. 4. Flowers white.
- reticulatum*. Leaves ternate, linear, strigose and pubescent underneath: racemes axillary: laments of 1 ovate reticulate joint larger than the calyx.
North America. *Willd.* 3. p. 1194. Leaves not tapering.
- villosum*. Leaves ternate, elliptic, mucronate, downy both sides: stipules lanceolate: racemes axillary.
— *Willd.* 3. p. 1195. Racemes longer than the leaves.
- violaceum*. Leaves ternate, elliptic, obtuse: racemes umbelled, as long as the petiole: flowers in pairs: laments of one rhombic reticulate glabrous joint.
Virginia. *Leaves* with a few hairs underneath.
- divergens*. Leaves ternate, oblong, obtuse: racemes longer than the petiole: flowers in pairs: laments of one ovate reticulate glabrous joint.
North America. *Willd. sp. pl.* 3. p. 1196.
- ciliare*. Leaves ternate, ovate, pubescent underneath, ciliate on the margin: panicle terminal: loment with half-orbicular bristly joints.
North America. *Willd.* 3. p. 1196. Laments 2 or 3-jointed.
- paniculatum*. Leaves ternate, oblong-lanceolate, glabrous: panicle terminal: laments with rhombic pubescent joints.
Virginia. *Pluk. mant.* 140. t. 432. f. 6. *Onobrychis*.

- caudatum.* Leaves ternate, oblong, glabrous : stem herbaceous : panicle terminal : loment downy.
Japan. *Thunb. Jap.* 286. Loment ferruginous.
- tuberosum.* Leaves ternate, ovate, acute : raceme terminal, very long : loment repand, villous.
East Indies. *Willd. 3. p. 1197.* Flowers nodding.
- cuspidatum.* Leaves ternate, ovate, pointed : panicle terminal : joints of the loment triangular, reticulate, pubescent on the margin.
North America. *Willd. 3. p. 1198.* Leaves glabrous.
- glutinosum.* Leaves ternate, roundish-ovate, pointed : panicle scape-like, from the base of the stem : peduncles vilcid : joints of the loment oblong-triangular, nearly glabrous.
North America. *Willd. 3. p. 1198.* Stem leafy.
- nudiflorum.* Leaves ternate, roundish-ovate, pointed : scape panicked, radical, glabrous : joints of the loment roundish-triangular, nearly glabrous.
Virginia. *Scape* naked, from the root.
- axillare.* Leaves ternate, rhombic-roundish : stem creeping and rooting : petioles erect : scape axillary, longer than the leaves.
Jamaica. *Swartz prodr.* 107.
- pilosum.* Leaves ternate, ovate, pointed : stem decumbent, hairy : racemes axillary.
Japan. *Thunb. Jap.* 290. Stem herbaceous, hairy.
- spirale.* Leaves ternate, ovate, obtuse, glabrous : stem with numerous diffuse branches : racemes lax, divaricate : loment spirally twisted.
Jamaica. *Swartz prodr.* 107. Loment 3 or 4-jointed.
- Scorpiurus.* Leaves ternate, oblong, hairy underneath : stems procumbent, triangular : racemes axillary : loment nearly cylindrical, erect.
West Indies. *Swartz prodr.* 107. Racemes long.
- biflorum.* Leaves ternate, ovate, downy : stem twining : peduncles 2-flowered, as long as the petiole : loment hairy.
East Indies. *Willd. 3. p. 1200.* Stem filiform.
- prostratum.* Leaves ternate, elliptic, obtuse : stem prostrate : racemes axillary : loment of one ovate joint.
Pennsylvania. *Willd. 3. p. 1200.* Racemes long.
- repens.* Leaves ternate, roundish-elliptic, emarginate : racemes axillary : loment repand.
Virginia. *Dill. elth.* 172. t. 147. f. 169. Trifolium.

- virgatum.* Leaves ternate, ovate, obtuse with a point: stem angular, hairy: peduncles capillary, 3-flowered.
Japan. *Thunb. Jap.* 288. Leaves hairy beneath.
- heterophyllum.* Leaves ternate, obovate-elliptic, obtuse: stem ascending: peduncles axillary, 1-flowered: lomenta repand on the upper margin, ciliate.
Ceylon. *Burm. Zeyl.* 118. t. 54. f. 1. Stem hairy.
- triflorum.* Leaves ternate, inversely heart-shaped: stem procumbent: peduncles 1-flowered, axillary: lomenta repand on the upper margin, ciliate.
Indies. *Burm. Ind.* t. 54. f. 2. *Burm. Zeyl.* t. 54. f. 2.
- ciliatum.* Leaves ternate, ovate, mucronate, hairy: peduncles axillary, 1-flowered, shorter than the leaves.
The Cape. *Thunb. nov. act. upf.* 6. p. 43. t. 2. f. 1.
- tetraphyllum.* Leaflets 3 and 4: stipules half arrow-shaped: racemes elongated: bractes in pairs, longer than the flower.
The Cape. *Thunb. nov. act. upf.* 6. t. 41. f. 3.
Lomenta 4-jointed, moniliform, rough.
- barbatum.* Leaves ternate: racemes oblong, slightly branched: lomenta inflected: calyxes hairy.
Jamaica. *Flowers* drooping: lomenta 2-jointed.
- lagopodoides.* Leaves ternate: racemes oblong: lomenta 1-seeded, inflected: calyxes rough-haired.
China. *Burm. Ind.* 68. t. 53. f. 2. Bractes ovate.
- uncinatum.* Leaves ternate, ovate, villous: stem shrubby, climbing: racemes terminal.
Caraccas. *Jacq. hort. schænb.* 3. p. 27. t. 298.
Stem covered with hooked hairs: leaves soft both sides.
- volutile.* Leaves ternate, lanceolate, obtuse: stem twining: racemes axillary.
North America. *Dill. elib.* 173. t. 143. f. 170.
- D. Leaves pinnate.
- pictum.* Cauliscent: leaves pinnate, lanceolate: raceme very long, spiked: joints of the loment elliptic, flexuously plaited.
Guinea. *Jacq. ic. rar.* 3. t. 567. Bractes coloured.
Leaves dark green, with a yellow spot on the disk.
- argenteum.* Stemless: leaves pinnate, roundish-ovate, silky-downy underneath: scape leafless: joints of the loment wrinkled and villous.
Siberia. *Pall. it.* 2. t. 9. *Gmel. Sib.* 4. t. 13.
- nitidum.* Cauliscent: leaves pinnate, elliptic, downy, shining, silky: joints of the lomenta smooth.
America. Stem flexuous, snowy-downy.

- varium*. Caulescent: leaves pinnate, elliptic, acute, downy underneath: joints of the loment rough.
Armenia. *Racemes* thrice as long as the leaves.
- fruticosum*. Shrubby: leaves pinnate; leaflets alternate, elliptic, obtuse; pubescent underneath: joints of the loment reticulate.
Siberia. *Pall. it.* 3. t. 5. f. 1. *Gmel. Sib.* 4. t. 22.
Racemes axillary, shorter than the leaves.
- sennooides*. Shrubby: leaves pinnate; leaflets alternate, obovate, retuse, glabrous: racemes axillary, few-flowered: joints of the loment prickly.
East Indies. *Willd.* 3. p. 1207. Branches glabrous.
- alpinum*. Caulescent, erect: leaves pinnate, ovate-lanceolate, glabrous: racemes elongated, axillary: bractes shorter than the peduncle: loment pendulous, with glabrous joints.
Siberia. *Gmel. Sib.* 4. p. 26. n. 35. t. 10.
- obscurum*. Caulescent, flexuous: leaves pinnate, ovate, glabrous: racemes axillary: bractes longer than the peduncle: loment pendulous, with glabrous joints.
Austria. *Curt. mag.* t. 282. *Jacq. Austr.* t. 168.
- tauricum*. Caulescent, erect: leaves pinnate, lance-linear, pubescent underneath: joints of the loment roundish, roughish.
Tauria. *Pall. nov. act. petrop.* 10. p. 315.
Loment hairy, with transverse smooth wrinkles.
- incarnatum*. Leaves pinnate, without stipules, hoary underneath: stem erect: flowers racemed, drooping.
Japan. *Thunb. Jap.* 289. Stem herbaceous, glabrous.
- carnosum*. Caulescent, procumbent: leaves pinnate, obovate, mucronate, fleshy, quite glabrous.
Barbary. *Desfont. atl.* 2. p. 177. t. 200.
- coronarium*. Caulescent, diffuse: leaves pinnate, roundish-elliptic: joints of the loment roundish, prickly, naked.
French Honeysuckle.
Italy. *Mart. fl. rust.* t. 115. *Riv. tetr.* t. 98.
- flexuosum*. Caulescent, diffuse: leaves pinnate, oblong: loment flexuous, with prickly joints.
Asia. *Riv. tetr.* t. 213. Flowers reddish.
- pallidum*. Caulescent, procumbent: leaves pinnate, elliptic, hoary-pubescent: joints of the loment roundish, prickly.
Barbary. *Desfont. atl.* 2. p. 177. Corol pale rose.
- capitatum*. Stem decumbent: leaves pinnate, obovate: flowers in racemed heads: peduncles longer than the leaves.
Barbary. *Desfont. atl.* 2. p. 177. Leaflets bristly.

- humile*. Caulescent, procumbent: leaves pinnate, linear-wedge-form: wings of the corol very short: joints of the loment roundish, hairy, prickly.
Spain. *Baub. hist.* 2. p. 336, fig. Spike ovate.
- muricatum*. Caulescent, decumbent: leaves pinnate, obovate, emarginate, bristly on the margin: raceme terminal: loment of numerous repand muricate joints.
Patagonia. *Jacq. ic. rar.* 3. t. 568. Corol yellow.
- spinosissimum*. Caulescent, diffuse: leaves pinnate, obovate, emarginate: flowers in racemed heads: joints of the loment orbicular, villous, prickly.
Spain. *Pluk. phyt.* t. 50 f. 2. Flowers purplish.
- virginicum*. Stem shrubby: leaves pinnate: loment jointed, glabrous, peduncled, erect.
Virginia. *Leaflets* oblong, obtuse.
- pumilum*. Stem somewhat shrubby: leaves pinnate: wings of the corol shorter than the banner, and the banner shorter than the keel: loment 1-seeded.
Spain. Spike of flowers glabrous.
- venosum*. Stemless: leaves pinnate, roundish-elliptic, villous underneath: loment 1-seeded, orbicular, toothed on the margin, villous.
Barbary. *Desfont. atl.* 2. p. 179. t. 201.
- circinatum*. Caulescent, erect: leaves pinnate, oblong: loment 1-seeded, orbicular, reticulate, toothed on the margin, pubescent.
Cappadocia. *Buxb. cent.* 2. t. 42. *Onobrychis*.
- Tournefortii*. Stem erect, pubescent: leaves pinnate, oblong-lanceolate, hoary-pubescent underneath: wings falcate, longer than the calyx: loment 1-seeded, villous, toothed, with orbicular-falcate joints.
Armenia. *Willd.* 3. p. 1214. Stem hoary: loment prickly.
- Pallasii*. Stem erect, villous: leaves pinnate, ovate, downy underneath: wings obtuse, shorter than the calyx.
Tauria. *Pall. nov. act. petrop.* 10. p. 316.
Stem with spreading hairs: corol yellow with red veins.
- ornatum*. Stem erect, flexuous: leaves pinnate, ovate, cuspidate, hoary-pubescent underneath: wings lanceolate, twice as short as the keel: loment 1-seeded, half orbicular, villous, prickly.
Galatia. *Willd.* 3. p. 1215. Racemes very long.

- *Onobrychis*. Stem ascending: leaves pinnate, elliptic, nearly glabrous: wings of the corol as long as the calyx: loment 1-seeded, reticulate, with prickly teeth on one side.

Saintfoin.

Pastures. *Eng. bot. tab.* 96. *Mart. flor. rust. tab.* 47.

- album*. Stem erect: leaves pinnate, linear, silky underneath: wings shorter than the calyx: loment 1-seeded, pubescent, with prickly teeth.

Hungary. *Willd. 3. p.* 1216. Flowers white.

- saxatile*. Stem ascending: leaves pinnate, linear, glabrous: wings shorter than the calyx: loment 1-seeded, glabrous, prickly.

South of Europe. Stem hardly any: spike whitish.

- petraum*. Stem nearly erect: leaves pinnate, oblong-lanceolate, glabrous: wings twice as long as the calyx: loment 1-seeded, pubescent, toothed.

Caucasus. *Willd. 3. p.* 1217. Stem elongated.

- confertum*. Stem procumbent: leaves pinnate, elliptic, pubescent: raceme ovate: loment 1-seeded.

Barbary. *Desfont. atl. 2. p.* 178. Flowers rosy.

- Caput Galli*. Stem erect: leaves pinnate, oblong, glabrous: wings shorter than the calyx: loment 1-seeded, prickly, with subulate spinous teeth on the crest.

South of France. Spines of the loment equal, acute.

- Crista Galli*. Stem erect: leaves pinnate, oblong, glabrous: petals nearly equal: loment 1-seeded, prickly, with lanceolate denticulate teeth on the crest.

South of Europe. Petals of equal length.

- crinitum*. Leaves pinnate: racemes long: loment inflected: stem shrubby.

East Indies. *Burm. Ind. t.* 53. Leaflets 5.

- comosum*. Leaves pinnate, lanceolate: racemes elongated, cylindrical: stem shrubby.

East Indies. *Vahl. symb. 2. p.* 84. Leaves glabrous.

- cornutum*. Leaves pinnate, linear: loment 1-seeded, smooth: stem shrubby: peduncles changing into thorns.

Levant. *Tournef. it. 2. t.* 108. *Onobrychis*.

Peduncles changing into thorns as long as the leaves.

1410. INDIGOFERA. *Calyx* spreading: *keel* of the corol with a subulate spreading spur each side: *legume* linear. *Indigo*.

A. *Leaves simple.*

- filifolia.* Leaves simple, filiform: flowers racemed.
The Cape. *Thunb. prodr.* 132.
- linifolia.* Leaves simple, linear, hoary: legumes globular.
East Indies. *Retz. obs.* 4. p. 29. & 6. p. 32. t. 2.
Plant prostrate, hoary: racemes axillary.
- simplicifolia* Leaves simple, linear, nearly naked: legumes linear, cylindrical.
Sierra Leona. *Lamarck. encycl.* 3. p. 241.
- sericea.* Leaves simple, lanceolate, silky: spikes sessile, terminal: stem shrubby.
The Cape. *Leaves* often with a naked coloured edge.
- oblongifolia* Leaves simple, oblong, silky: racemes axillary: stem shrubby.
Arabia Felix. *Vahl symb.* 1. p. 55. Shrub silky.
- depressa.* Leaves simple, ovate, silky: branches forming a right angle with the stem.
Ulex capensis. *Sp. pl.* 1046.
The Cape. *Pet. gaz.* 9. t. 83. f. 9. *Pluk. alm.* t. 189. f. 6.
- ovata.* Leaves simple, ovate, villous: flowers racemed.
The Cape. *Thunb. prodr.* 132. Stem herbaceous.
- echinata.* Leaves simple, obovate, glabrous: legumes falcate, prickly.
Tranquebar. *Willd.* 3. p. 122. Plant glabrous.

B. *Leaves ternate.*

- trifoliata.* Leaves ternate: flowers lateral, sessile.
India. *Legumes* linear, reflected, 4-sided.
- psoraloides.* Leaves ternate, lanceolate, silky underneath: racemes longer than the leaves: legumes pendulous.
The Cape. *Curt. mag.* t. 476. Flowers red.
- candicans.* Leaves ternate, linear-lanceolate, silky underneath: racemes few-flowered, longer than the leaves: legumes straight.
The Cape. *Curt. mag.* t. 198. Legumes horizontal.
- amara.* Leaves ternate, oblong, pubescent underneath: racemes longer than the leaves: legumes reflected, appressed.
The Cape. *Jacq. hort. schænb.* 2. p. 57. t. 234.
- incana.* Leaves ternate, obovate, silky underneath: raceme terminal, elongated: stem shrubby, decumbent.
The Cape. *Thunb. prodr.* 132. Peduncles 2 or 3 together.

- cinerea.* Leaves ternate, oblong-lanceolate, silky: racemes as long as the leaves: stem erect, wand-like, cinereous.
East Indies. *Willd.* 3. p. 1224. Plant silky.
- spinosa.* Shrubby: leaves ternate, obovate: peduncles becoming spinous.
Arabia Felix. *Vahl. symb.* 1. p. 55. Leaflets sessile.
- procumbens.* Leaves ternate, obovate, strigose and pubescent underneath: racemes longer than the leaves: legumes drooping: stem herbaceous, prostrate.
The Cape. Spikes axillary, peduncled.
- prostrata.* Leaves ternate, obovate: racemes shorter than the petiole: legumes pendulous: stem herbaceous, prostrate.
East Indies. *Willd.* 3. p. 1226. Legumes filiform.
- sarmentosa.* Leaves ternate; leaflets ovate, mucronate, sessile: peduncles axillary, about 2-flowered: branches filiform, spreading.
The Cape. Stem prostrate.
- denudata.* Leaves ternate, inversely heart-shaped, glabrous: racemes longer than the leaves: legumes pendulous: stem erect, shrubby.
The Cape. *Jacq. hort. schænb.* 2. p. 57. t. 233.
- erecta.* Leaves ternate, ovate, mucronate: raceme axillary, longer than the leaves: stem nearly erect, herbaceous.
The Cape. *Thunb. prodr.* 133. Legumes pendulous.
- mexicana.* Leaves ternate: panicle branching into spikes: stem shrubby.
The Cape. Branches reddish-pubescent.
- glandulosa.* Leaves ternate, oblong-ovate, hairy underneath with glandular dots: racemes shorter than the petiole: legumes imbricate.
East Indies. *Willd.* 3. p. 1227. Stem herbaceous.
- trita.* Leaves ternate, ovate, acute: racemes short: stem erect.
East Indies. Racemes lateral, reddish.
- arcuata.* Leaves ternate, elliptic, mucronate, pubescent underneath: racemes nearly as long as the petioles: legumes reflected, curved, 4-sided.
East Indies. *Willd.* 3. p. 1228. Flowers drooping.

C. *Leaves quinate.*

- coriacea.* Leaflets 5, obovate, mucronate, hairy: stipules subulate: legumes straight, glabrous.
The Cape. *Aiton Kew.* 3. p. 68.

filiformis. Leaflets 5, oblong, villous: racemes terminal: branches erect, filiform.

The Cape. *Flowers* somewhat spiced.

digitata. Leaves in finger-like divisions and many-cleft: raceme terminal: stem somewhat shrubby.

The Cape. *Racemes* peduncled,

D. *Leaves* pinnate.

enneaphylla Leaves pinnate, with 7 wedge-shaped leaflets: racemes as long as the leaves: legumes 4-sided, 2-seeded: stem procumbent.

India. *Burm. Ind. t. 55. f. 1. Pluk. alm. t. 166. f. 2, 3.*

Herb prostrate: leaflets alternate, channelled.

pentaphylla. Leaves pinnate, of 5 oval leaflets: stem prostrate: peduncles 2-flowered.

Flowers red.

semitrijuga. Leaves of 5 inversely heart-shaped leaflets: legumes somewhat spiced, pendulous, swelling at the seeds: stem prostrate, somewhat shrubby.

Arabia; East Indies. *Vahl. symb. 1. p. 56. Hoary.*

fragrans. Leaves pinnate, of 5 ovate hairy leaflets, the terminal one large: legumes linear, 4-sided.

East Indies. *Retz. obs. 4. p. 29. Flowers* red.

glabra. Leaves pinnate and ternate, obovate: racemes very short: legumes horizontal, cylindrical.

India. *Rheed. Mal. 9. t. 67. Pluk. alm. t. 166. f. 1.*

cytisoides. Leaflets 5 and 7, oblong, narrowed to each end: racemes longer than the leaves: stem shrubby.

Psoralea cytisoides. Sp. pl. 2. p. 1056.

The Cape. *Jacq. hort. schænb. 2. t. 235. Comm. hort. 2. t. 84.*

frutescens. Leaflets 5 and 7, elliptic, pubescent underneath: racemes shorter than the leaf: stem shrubby.

The Cape. *Leaves* mostly ternate and pinnate.

striata. Leaflets 7 and 9, oblong, pubescent underneath: racemes about 5-flowered, nearly sessile: stem shrubby, stiff.

The Cape. *Jacq. hort. schænb. 2. p. 58. t. 236.*

endecaphylla. Leaflets 11, oblong, glabrous: racemes spiced, shorter than the leaf: legumes 4-sided, reflected: stem herbaceous, procumbent.

Guinea. *Jacq. ic. rar. 3. t. 570.*

lateritia. Leaves pinnate and ternate, obovate, viscid-hairy: racemes about as long as the leaves: legumes 4-sided, hairy.

Guinea. *Jacq. ic. rar. 3. t. 569. I. hirsuta.*

Plant viscid-hairy: corol the colour of brick-dust.

- birsuta.* Leaves pinnate, in 4 or 5 pairs, hoary underneath: racemes as long as the leaves, spiked: legumes 4-sided, villous.
India. *Burm. Zeyl.* t. 14. *Rheed. Mal.* 9, t. 30.
- picata.* Leaves pinnate, obovate; flowers spiked: legumes cylindrical, swelling at the seeds, pendulous: stem decumbent.
Arabia Felix. *Vabl. symb.* 1. p. 56. Plant villous.
- angustifolia* Leaves pinnate, linear: racemes axillary, elongated: stem shrubby, downy.
The Cape. *Curt. mag.* t. 465. Flowers red.
- capillaris.* Leaves pinnate, filiform, glabrous: racemes terminal: stem somewhat shrubby.
The Cape. *Thunb. prodr.* 133.
- dendroides.* Leaves pinnate in many pairs, lanceolate, glabrous: raceme filiform, longer than the leaf: banner with strigose hairs: legumes erect.
Guinea. *Jacq. ic. rar.* 3. t. 571. Flowers rosy.
- australis.* Leaves pinnate in many pairs, oblong, glabrous: racemes shorter than the leaf: banner glabrous: legumes spreading.
New Holland? *Willd.* 3. p. 1235. Legumes glabrous.
- punctata.* Leaves pinnate, oblong, silky: racemes axillary: stem herbaceous, downy.
The Cape. *Thunb. prodr.* 133.
- viscosa.* Leaves pinnate in 6 pairs; leaflets obovate, with strong appressed hairs: racemes shorter than the leaf: stem erect, viscid-hairy.
East Indies. *Schrad. Wendl. fert. Hannov.* t. 12. I. graveolens.
- inquinans.* Leaves pinnate in 4 pairs, oblong, with strong appressed white hairs: racemes shorter than the leaf: legumes pendulous: stem viscid-hairy.
St. Domingo. *Willd.* 3. p. 1236. Stem viscid, glandular.
- Anil.* Leaves pinnate in 3 pairs, oblong, hoary underneath: racemes shorter than the leaf: legumes falcate: stem shrubby.
Indies. *Sloane Jam.* 2. 37. t. 176. f. 3. Colutea.
- liniflora.* Leaves pinnate in 4 pairs, oblong, glabrous: racemes shorter than the leaf: legumes cylindrical, slightly curved: stem shrubby.
East Indies. *Mill. fig.* t. 34. *Blackw.* t. 596. *Sloan.* t. 179. f. 2.
- disperma.* Leaves pinnate, oval: racemes elongated: legumes 2-seeded.
Indies. *Trew. chr.* t. 55. Racemes longer than the leaves.

- argentea*. Leaves simple, ternate and pinnate, silky: legumes swelling at the seeds, pendulous.
 Arabia; India. *L'Herit. stirp. nov. p. 165. t. 79.*
Plant white-downy: leaflets obovate, obtuse, silky.
- pulchra*. Leaves simple, ternate and pinnate, wedge-shaped, hairy: lateral flowers solitary, terminal ones nearly forming heads: legumes hairy.
 Guinea. *Willd, 3. p. 1239.* Leaves hoary beneath.

1411. GALEGA. Calyx with subulate teeth, nearly equal: legume with oblique streaks between the seeds.

A. Leaves ternate.

- filifolia*. Leaves ternate, filiform: flowers umbelled: stem erect.
 The Cape. *Thunb. prodr. 233.*
- pusilla*. Leaves ternate, ovate, mucronate, silky underneath: flowers lateral: stem erect.
 The Cape. *Thunb. prodr. 133.*
- falcata*. Leaves ternate, silky: legumes solitary, falcate, silky: stem erect.
 The Cape. *Thunb. prodr. 134.*
- filiformis*. Leaves ternate, elliptic, obtuse, shining: legumes falcate: stem twining.
 South America. *Jacq. ic. rar. 3. t. 573.*
- sericea*. Leaves ternate, ovate, downy: flowers axillary, solitary.
 The Cape. *Thunb. prodr. 134.*
- totta*. Leaves ternate, oblong, rough-haired: flowers somewhat umbelled: stem herbaceous.
 The Cape. *Thunb. prodr. 134.*
- longifolia*. Leaves ternate, lanceolate, obtuse: legumes straight, vil-
 lous: stem twining.
 South America. *Jacq. ic. rar. 3. t. 572.*

B. Leaves pinnate.

- officinalis*. Leaves pinnate, lanceolate, mucronate, glabrous: stipules lanceolate, arrow-shaped: legumes erect, stiff.
 Goat's-Rue.
 South of Europe; Africa. *Mill. fig. t. 137. Blackw. t. 92.*
- orientalis*. Leaves pinnate, ovate, pointed, glabrous: stipules ovate: flowers drooping.
 Levant. *Lamarck. encycl. 2. p. 589.*
Leaflets 6 pair and an odd one, finely ciliate on the edge.
- striata*. Leaves pinnate: flowers racemed: stem herbaceous, striate.
 The Cape. *Thunb. prodr. 134.*

- danurica.* Leaves pinnate, lanceolate, tapering to both ends, villous: legumes linear, slightly recurved.
Dauria. *Pall. it. 3. app. n. 107. t. W. f. 1.*
Plant white-hairy: flowers purple.
- cinerea.* Leaves pinnate, obtuse with a point, villous underneath: stipules lanceolate: racemes opposite the leaves: legumes stiff, ascending.
Arabia Felix. Vahl. symb. 2. p. 84. Legumes in threes.
- littoralis.* Leaves pinnate, wedge-oblong, emarginate, with stiff hairs: stipules subulate: racemes thrice as long as the leaves: legumes stiff, spreading.
Carthagenæ. Jacq. Amer. 206. t. 124. *Vicia.*
Plant clothed with hoary appressed hairs.
- toxicana.* Leaves pinnate, oblong-lanceolate, obtuse, villous-downy underneath: raceme terminal, elongated: legumes cylindrical, very much spread.
West Indies. Plum. ic. 126. t. 135. *Cytisus.*
- virginiana.* Legumes retrofalcate, compressed, villous, spiked: calyxes woolly: leaflets oval-oblong, pointed.
Virginia, Canada. Pluk. alm. t. 23. f. 2. *Cicer.*
- grandiflora.* Leaves pinnate, oblong, mucronate, pubescent underneath: stipules ovate, pointed: raceme about 4-flowered, terminal: legumes retrofalcate, pendulous.
The Cape. Aiton Kew. 3. p. 70. Banner silky underneath.
- striata.* Leaves pinnate, wedge-oblong, with a recurved point, villous underneath: stipules subulate: raceme few-flowered: legumes stiff, pendulous.
The Cape. Scopol. del. Insul. 1. t. 3. *G. pulchella.*
Branchlets angular, villous: bractes subulate.
- pallens.* Legumes stiff, spreading, ciliate: stipules subulate: leaflets 9—11, oblong, acute pubescent underneath.
The Cape. Aiton Kew. 3. p. 71. Thunb. prodr. 134. *G. humilis.*
- villosa.* Leaves pinnate, lance-wedge-form, mostly retuse, silky underneath: stipules setaceous: legumes retrofalcate, villous, pendulous.
India. Pluk. alm. t. 59. f. 6. 2) Burm. Zeyl. t. 33.
Plant procumbent: calyx with grey hairs.
- Colutea.* Leaves pinnate, downy, oblong-obovate: stipules lanceolate: legumes stiff, erect.
East Indies. Pluk. alm. 112. t. 166. f. 3. *Colutea.*
Plant downy: partial peduncles very short.
- maxima.* Leaves pinnate, glabrous, oblong, striate: stipules lanceolate: legumes stiff, ascending, glabrous.
Ceylon. Burm. Zeyl. 228. t. 108. f. 2. *Vicia.*

- piscatoria*. Leaves pinnate, 11—13, oblong, obtuse, a little hairy underneath: stipules subulate: peduncles 2-edged: legumes stiff, ascending, a little villous.
East Indies. *Aiton Kew. 3. p. 71.*
- purpurea*. Leaves pinnate, oblong-wedge-shaped, emarginate, mucronate, glabrous: stipules subulate: legumes racemed, stiff, ascending.
Ceylon. *Burm. Zeyl. 77. t. 33. Coronilla.*
- caribæa*. Leaves pinnate, oblong, acute, slightly pubescent underneath: stipules subulate: legumes glabrous, racemed, pendulous.
Caribbees. *Jacq. Amer. 212. t. 125. pi. 1. 193.*
- schroleuca*. Leaves pinnate, ovate, rather acute, pubescent: stipules subulate: legumes glabrous, stiff, pendulous, racemed.
— *Jacq. ic. rar. 1. t. 150. Leaflets large, ovate.*
- cærulea*. Leaves pinnate, 8—10 pair, elliptic: racemes terminal, compact, many flowered.
America. *Branches ferruginous, with black dots.*
- tinctoria*. Leaves pinnate, elliptic, emarginate, silky underneath: stipules lanceolate: racemes peduncled, axillary: legumes glabrous, stiff, spreading.
Ceylon. *The natives prepare Indigo from this plant.*
- linearis*. Leaves pinnate, very narrow, linear, silky underneath: stipules filiform: legumes racemed, pendulous.
Guinea. *Willd. 3. p. 1248. Legumes linear, pubescent.*
- domingensis*. Leaves pinnate, linear-wedge-form, obtuse, mucronate: stipules lanceolate: legumes racemed, pendulous.
St. Domingo. *Willd. 3. p. 1249. Flowers in pairs, reddish.*
- mimosoides*. Leaves evenly pinnate, in many pairs, linear, obtuse: racemes axillary, peduncled: legumes pendulous.
East Indies. *Willd. 3. p. 1249. Leaves hairy.*
- oulia*. Leaves pinnate, in many pairs, elliptic, obtuse, hoary-pubescent: stipules oblong: racemes many-flowered.
The Cape. *Jacq. ic. rar. 3. t. 576. Plant hoary, prostrate.*
- capensis*. Leaves pinnate, in about 5 pairs, oblong: legumes racemed, villous: stem decumbent, somewhat shrubby.
The Cape. *Jacq. ic. rar. 3. t. 574. Leaves glabrous.*
- spinosa*. Leaves pinnate, wedge-shaped, emarginate: stipules becoming spinous: legumes falcate, axillary, nearly solitary.
Coromandel. *Branches white: leaflets hoary.*
- pinnata*. Leaves pinnate, in 3 pairs: flowers umbelled.
The Cape. *Thunb. prodr. 34.*

pumila.

Leaves pinnate, oblong-wedge-shaped, retuse, villous underneath: legumes stiff, axillary, solitary: stem very much branched.

Guinea; Madagascar. *Lamarck. encycl.* 2. p. 592.

senticosa.

Leaves pinnate, emarginate, silky underneath: legumes in pairs, lateral, glabrous: stem shrubby.

Ceylon. *Leaflets* mostly 9, obovate, streaked.

1412. PHACA. *Calyx* 5-toothed; the 2 upper teeth more remote: *legume* half 2-celled, inflated.

baetica.

Caulescent, erect, hairy: leaves pinnate, oval, acute: stipules lanceolate: legumes oblong, boat-shaped, compressed.

Spain; Portugal. *Park. theat.* 1081. f. 1. Altragalus.

glabra.

Caulescent, branched, prostrate: leaves pinnate, ovate-lanceolate, very entire: legumes glabrous.

Alps. *Clarion Med. & Phys. Journ.* viii. p. 282.

Stipules ovate, acute, sheathing: *flowers* spiked, white.

floribunda.

Caulescent, erect, glabrous: leaves abruptly pinnate, oblong, obtuse, mucronate: stipules lance-subulate: legumes oblong, compressed, pointed.

Florida. *Jacq. ic. rar.* 1. t. 148. Robinia.

Racemes shorter than the leaves: *flowers* yellow.

salsula.

Caulescent, erect, hoary: leaves pinnate, obovate, obtuse: stipules oblong, obtuse: legumes globular, pendulous.

Dauria. *Pall. it.* 3. app. n. 115. t. B. b.

alpina.

Caulescent, erect, branched, pubescent: leaves pinnate in many pairs, oblong-lanceolate, obtuse: legumes semi-ovate, acute.

Alps. *Jacq. ic. rar.* 1. t. 151. *Gmel. Sib.* 4. t. 14.

frigida.

Caulescent, erect, undivided: leaves pinnate in about 5 pairs, oblong, obtuse, slightly ciliate: legumes oblong, inflated.

Alps. *Jacq. Austr.* t. 166. *Fl. Dan.* t. 856.

australis.

Caulescent, branched, ascending: leaves pinnate, in about 8 pairs, lanceolate, with the odd one nearly sessile: wings of the corol cloven.

Alps. *Jacq. misc.* 2 t. 3. *Vill delph.* 3. t. 41.

Leaflets about 6 pairs, cinereous, hairy.

arenaria.

Caulescent, slightly branched, ascending, glabrous: leaves pinnate in about 5 pairs, linear-lanceolate, with the odd one nearly sessile: legumes obovate, inflated, erect.

Siberia. *Pall. it.* 3. app. n. 116 t. A. a. f. 1, 2.

- balicacaba*. Caulescent, procumbent: leaves pinnate in about 5 pairs, oblong, acute, hoary, with the odd one nearly sessile: calyxes inflated, ovate, reticulate, hairy.
Galatia. Willd. 3. p. 1254. Bractes ovate.
- trifoliata*. Leaves ternate, oval, obtuse: legumes half orbicular.
 China. Leaves downy underneath: raceme terminal.
- vesicaria*. Stemless, glabrous: calyx of the fruit oval, inflated: leaves pinnate, lanceolate, glabrous.
 Armenia. Schreb. dec. 9. t. 7. Calyxes coloured, glabrous.
- incana*. Stemless, hoary: calyx of the fruit oval, inflated, villous: leaves pinnate, oblong, obtuse.
 Armenia. Plant hoary: leaflets approximate.

1413. ASTRAGALUS. Legume mostly 2-celled, gibbous: seeds disposed in 2 rows. Milk vetch.

A. Stems leafy, erect: flowers axillary.

- christianus*. Caulescent, erect: leaflets elliptic, petioled: stipules linear-subulate: peduncles about 3-flowered, axillary, clustered: legumes oblong, compressed, pubescent.
 Armenia. Tournes. it. 2. t. 254.
- Sieversianus*. Caulescent, erect: leaflets oblong, petioled: stipules ovate, pointed: peduncles many-flowered, axillary, clustered: legumes ovate, inflated, downy.
 Siberia. Pall. Astrag. p. 15 t. 12.
- tomentosus*. Caulescent, erect: leaflets roundish-hearted, sessile, downy: stipules ovate, pointed: peduncles 1-flowered, axillary: legumes oblong, incurved, downy.
 Egypt. Willd. 3. p. 1257. Leaves hoary.

B. Stems leafy, erect: spikes cylindrical, axillary, sessile or nearly so.

- alopecuroides*. Caulescent, erect: leaflets ovate-lanceolate, pubescent: stipules ovate: spikes cylindrical, nearly sessile: calyx with capillary woolly teeth, as long as the corol.
 Siberia; Spain Mill. fig. t. 58. Pall. Astrag. n. 13. t. 8.
- maximus*. Caulescent, erect: leaflets lanceolate, pubescent: stipules oblong-lanceolate: spike cylindrical, sessile, terminal: calyx with capillary woolly teeth, longer than the corol.
 Armenia. Willd. 3. p. 1258. Spike solitary.
- Alopecias*. Caulescent, erect: leaflets elliptic, villous: stipules lanceolate: spikes cylindrical, sessile, as long as the leaves: calyx with lance-subulate woolly teeth.
 Siberia, Pall. Astrag. n. 14. t. 9. Spikes obtuse.

narbonensis. Caulescent, erect: leaflets oblong, retuse, villous: stipules lanceolate: spikes lobular, nearly sessile: calyx with linear pointed woolly teeth.

South of Europe. *Pall. Astrag. n. 15. t. 10.*

ponticus. Caulescent, erect: leaflets oblong, emarginate, somewhat hairy: stipules lanceolate: spikes globular, sessile: calyx cylindrical, woolly, with ovate teeth.

2. Leaflets glabrous, not emarginate. *Tourn. Cor. 29.*

Armenia. *Pall. Astrag. n. 16 t. 11.* Stem nearly glabrous.

vulpinus. Caulescent, erect: leaflets elliptic, obtuse, villous: stipules lanceolate: spikes ovate, peduncled: calyx with capillary woolly teeth, as long as the corol.

Siberia. *Pall. Astrag. n. 12 t. 7.* A. alopecuroides.

C. Stems leafy, erect: spikes and racemes peduncled.

macrocephalus. Caulescent, erect: leaflets oblong-lanceolate, glabrous: stipules ovate, dilated, sheathing: spikes globular, peduncled: calyxes woolly, with lance-subulate teeth.

Galatia. *Willd. 3 p. 1260.* Flowers yellow.

capitatus. Caulescent: heads globular, on very long peduncles: leaflets emarginate.

The East. *Hort. cliff. 360.* Flowers purple.

Dasyanthus. Caulescent, erect: leaflets elliptic, obtuse with a point, villous: stipules lanceolate: spikes in roundish heads, peduncled: calyx with lanceolate villous teeth: legumes ovate-lanceolate, villous.

Siberia. *Pall. Astrag. t. 65. Pall. it. 3 app. t. Gg. f. 1.*

fragiformis. Caulescent, erect: leaflets linear-lanceolate, glabrous: stipules lanceolate: spike globular, peduncled, terminal: calyx of the fruit inflated, globular, downy.

Siberia. *Pall. Astrag. n. 19. t. 13.* A. anthylloides.

onobrychoides. Caulescent, erect: leaflets lanceolate, hoary: stipules lanceolate: spike in a peduncled terminal head: legumes oblong, erect, larger than the calyx.

Persia. *Pall. Astrag. t. 24.* A. cephalotes.

Plant hoary: calyx with lanceolate teeth.

pilosus. Caulescent, erect, hairy: leaflets lanceolate, acute: stipules lanceolate: spikes peduncled, longer than the leaves: legumes subulate, hairy.

Siberia. *Pall. Astrag. t. 80. Jacq. Austr. t. 51.*

dealbatus. Caulescent, somewhat shrubby, erect, hoary: leaflets about 3 pairs, lanceolate, acute: stipules oblong-pointed: spikes peduncled, longer than the leaf: banners emarginate: legumes oblong, hoary.

Tauria, *Pall. Astrag. t. 23. f. 2, 3.* T t 2

- sulcatus*. Caulescent, erect, striate: leaflets linear-lanceolate, glabrous: stipules lanceolate: racemes longer than the leaf: legumes 3-sided, 1-celled.
Siberia. *Jacq. hort.* 3. t. 40. *Pall. Astrag.* n. 53. t. 40.
Plant white, glabrous: stem grooved: flowers violet.
- bedysaroides*. Caulescent, erect: leaflets linear, pubescent: stipules ovate, pointed: spike peduncled, very long, terminal: calyx tubular, hairy: banner acute, elongated.
Armenia. *Willd.* 3. p. 1264. Corol longer than the wings.
- foribundus*. Caulescent, erect: leaflets linear, acute at each end, pubescent: stipules lanceolate: racemes axillary, longer than the leaf: calyx with linear-subulate teeth: legumes oblong-subulate, 1-celled.
Siberia. *Pall. Astrag.* n. 50 t. 37. Plant woolly.
- versicolor*. Caulescent, erect: leaflets linear, acute, glabrous: stipules lanceolate, united: racemes axillary, longer than the leaf: calyx with very short ovate cuspidate teeth: legumes 3-sided and subulate.
Siberia. *Pall. Astrag.* n. 48. t. 35. Flowers blue.
- leptostachys*. Caulescent, erect: leaflets linear, obtuse, glabrous: stipules lanceolate: racemes filiform, longer than the leaf: calyx with very short ovate acute teeth: legumes 3-sided.
Siberia. *Willd.* 3. p. 1265. Flowers blue.
- melilotoides*. Caulescent, erect, panicled: leaflets 2 or 3 pair, linear-wedge-shaped, retuse, glabrous: racemes filiform: legumes ovate, wrinkled, twin.
Siberia. *Pall. Astrag.* t. 41. *ib. itin.* 3. *app. t. D. d. f.* 1, 2.
- byrcanus*. Caulescent, erect, shrubby: leaflets 3 pair, linear, acute, pubescent: racemes about 5 flowered: legumes oblong, mucronate, villous.
Siberia. *Pall. Astrag.* n. 29, t. 22. Stipules ovate.
- virgatus*. Caulescent, erect, shrubby: leaflets about 6 pair, linear-lanceolate, hoary: racemes spiked, elongated: legumes oblong, 3-sided.
Russia. *Pall. Astrag.* n. 25. t. 18. *Gmel. Jun. it.* 2. t. 17.
- Garbanzillo*. Caulescent, erect, shrubby: leaflets many pair, oblong-linear, emarginate, hoary: stipules sheathing, bifid: racemes peduncled, longer than the leaf.
Peru. *Cavan. ic. rar.* 1. t. 85. Flowers pale violet.
- vimineus*. Caulescent, erect, shrubby: leaflets about 5 pair, lanceolate, pubescent: spikes peduncled, nearly in heads: legumes oblong-lanceolate, villous.
Siberia. *Pall. Astrag.* n. 28. t. 21. Legume with a deep groove.

- Arbuscula*. Caulescent, erect, shrubby: leaflets about 3 pair, linear, hoary: spikes peduncled, nearly in heads: legumes linear, 3-sided.
Siberia. *Pall. Astrag. n. 24. t. 17*. Legume with a deep groove.
- aduncus*. Caulescent, erect, shrubby: leaflets about 6 pair, linear, obtuse, somewhat hoary: spikes peduncled, nearly in heads: banner elongated, pointed: legumes hooked.
Armenia. *Willd. 3 p. 1269*. Stipules ovate, united.
- fruticosus*. Caulescent, erect, shrubby: leaflets 7 pair, oblong, rather obtuse, somewhat pubescent: heads few-flowered, peduncled: legumes oblong, villous.
Siberia. *Pall. Astrag. t. 19. Gmel. Sib. 4. t. 24. f. A*.
Leaflets glabrous above: legume with a groove.
- vaginatus*. Caulescent, erect, pubescent: leaflets lanceolate, tapering to each end: stipules opposite the leaves, solitary, sheathing: spikes peduncled, longer than the leaf.
Siberia. *Pall. Astrag. n. 49. t. 36*.
- tenuifolius*. Caulescent, erect: leaflets linear-lanceolate: spikes oblong, peduncled, longer than the leaf: banner twice as long as the wings.
Siberia. *Peduncles long, 3-sided: plant glabrous*.
- peregrinus*. Caulescent, erect: spikes peduncled, as long as the leaves: legumes curved, woolly, crowned with the style.
Levant? *Vabl. symb. 1. p. 57*. Plant hairy.
- asper*. Caulescent, erect, rough: leaflets linear lanceolate: spikes peduncled, stiff, longer than the leaf: legumes oblong-lanceolate, 3-sided.
Hungary. *Jacq. ic. rar. 1. t. 152. Pall. Astrag. t. 25*.
- galagiformis*. Caulescent, erect, stiff, glabrous: leaflets elliptic, obtuse: flowers racemed, pendulous: legumes 3-sided, smooth, mucronate at each end.
Armenia. *Pall. Astrag. n. 38. t. 29*. Legume glabrous.
- chinensis*. Caulescent, erect, stiff, glabrous: leaflets elliptic, obtuse: flowers racemed, pendulous: legumes ovate, inflated, transversely wrinkled, mucronate at each end.
China. *Linn. decad. 1. t. 3*.
- virescens*. Caulescent, erect, glabrous: leaflets lanceolate, acute: racemes longer than the leaf: legumes compressed, 3-sided, falcate, acute, pendulous.
Siberia. *Pall. Astrag. t. 28 Desfont. atl. 2. t. 206*.
- uliginosus*. Caulescent, erect: leaflets oblong, pubescent: spikes peduncled: bractes oblong, as long as the calyx: legumes oblong, tumid, with recurved points.
Siberia. *Pall. Astrag. t. 26. Gmel. Sib. 4. t. 17, 18*.

carolinianus Cauliscent, erect: leaflets oblong, pubescent underneath: spikes peduncled: bractes lanceolate, as long as the peduncle: legumes ovate, tumid, beaked.

Carolina. *Dill. elib.* t. 39 f. 45. Leaves woolly beneath.

Schlegelii Cauliscent, erect, pubescent: leaflets ovate-oblong: racemes nearly in heads, shorter than the petiole: legumes oblong, pendulous.

Siberia. *Pall. Astrag.* n. 84. t. 63. Flower yellow.

D. Stems leafy, diffuse.

canadensis. Cauliscent, diffuse; legumes somewhat cylindrical, mucronate: leaflets nearly naked underneath.

Virginia; Canada. *Dodart. mem.* t. 65. Flowers yellow.

odoratus. Cauliscent, decumbent: leaflets nearly glabrous, oblong, rather acute: stipules opposite the leaves, solitary, bifid: racemes longer than the leaf: legumes cylindrical, glabrous.

Levant. *Lamarck. encycl.* 1. p. 308. Flowers odorous.

Cicer. Cauliscent, prostrate: leaflets nearly glabrous, oblong, obtuse with a point: stipules lanceolate: racemes peduncled, longer than the leaf: legumes nearly globular, inflated, mucronate, pubescent.

Austria; Italy. *Jacq. Austr.* t. 251. *Riv. tetr.* t. 108.

Leaflets clothed with appressed hairs underneath.

glycyphyllos. Cauliscent, prostrate: leaflets glabrous, ovate, obtuse with a point: stipules ovate-lanceolate: racemes peduncled, shorter than the leaf: legumes somewhat 3-sided, curved.

Wild Liquorice.

Groves. *Eng. bot.* t. 203. *Riv. tetr.* t. 103.

lanatus. Cauliscent, prostrate, villous-pubescent: peduncles every where axillary, equalling the leaves: legumes subulate-pointed, villous.

Tauria. *Pall. Astrag.* n. 113 t. 81. Flowers erect.

tunetanus. Cauliscent, prostrate: leaflets inversely heart-shaped: stipules ovate: racemes longer than the leaf: legumes compressed, falcate.

Tunis. *Desfont atl.* 2 p. 188. t. 207. *A. leptophyllus*.

Plant pubescent: flowers white, in terminal heads.

microphyllus Cauliscent, prostrate and ascending: leaflets ovate, a little hairy: stipules solitary, opposite the leaves, 2-parted: spikes peduncled, longer than the leaf: legumes roundish, inflated, villous.

Germany. *Gmel. Sib.* 4. t. 19. Flowers yellow.

- parviflorus*. Caulescent, ascending: leaflets ovate-lanceolate, deflexed, hairy: spikes peduncled, longer than the leaf: legumes lanceolate, pendulous, 1-celled, hairy.
Siberia. *Pall. Astrag. n. 56. t. 27. Jacq. ic. rar. 1. t. 153.*
- trimestris*. Caulescent, procumbent: scapes about 2-flowered: legumes subulate, with recurved points and 2 ribs.
Egypt. *Jacq. hort. 2. t. 174.* Stems red, with white hairs.
- bamosus*. Caulescent, procumbent: leaflets wedge-shaped, emarginate: stipules ovate: racemes few-flowered, peduncled, shorter than the leaf: legumes hooked, subulate, glabrous.
Barbary: Montpellier. *Riv. tetr. 1. p. 107.* Flowers yellowish.
- annularis*. Caulescent, diffuse: legumes subulate, incurved, glabrous: leaflets obovate.
Egypt. *Vabl. symb. 1. p. 58.* Legumes spotted.
- scorpioides*. Caulescent, erect and spreading, pubescent: leaflets oblong, obtuse, emarginate: stipules lanceolate: flowers axillary, solitary, nearly sessile: legumes hooked, subulate, pubescent.
Spain. *Willd. 3. p. 1280.* Flowers blue.
- contortuplicatus*. Caulescent, procumbent, pubescent: leaflets obovate, emarginate: legumes curved and twisted, pubescent.
Siberia. *Pall. Astrag. 1. 79. Gmel. Sib. 4. t. 28.*
- bæticus*. Caulescent, procumbent: leaflets oblong, obtuse, mucronate: spikes peduncled, few-flowered, shorter than the leaves: legumes 3-sided, oblong, hooked at top.
Spain; Sicily. *Morif. sect. 2. t. 9. f. 11. Bocc. sic. t. 4.*
- Stella*. Caulescent, diffuse: heads of flowers peduncled, lateral: legumes straight, subulate, mucronate.
2. Leaves hoary: legumes silky. *Desfont. atl. 2. p. 186.*
France; Spain. *Pluk. phyt. 1. 79. f. 4.*
- sesameus*. Caulescent, diffuse: heads nearly sessile, lateral: legumes straight, subulate, with reflected points.
Italy; France. *Garid. aix. t. 12. Pluk. alm. t. 79. f. 3.*
- geniculatus*. Caulescent, procumbent: heads peduncled, deflexed when in fruit: legumes oblong, 3-sided, villous, curved at the tip.
Barbary. *Desfont. atl. 2. p. 186. t. 105.*
- pentaglottis*. Caulescent, procumbent: leaflets oblong, retuse: heads peduncled, shorter than the leaf: legumes half ovate, compressed and 3-sided, acute, with scaly prickles.
Spain. *Herm. lugdb. t. 75. Riv. tetr. 223. f. 2.*
Leaflets oblong, emarginate, pubescent underneath.

- epiglottis*. Caulescent, procumbent: leaflets linear, tapering to the base: heads nearly sessile: legumes half ovate, compressed, pubescent, with reflected points.
Spain. *Herm. lugdb. t. 77. Riv. tetr. 223. f. 1.*
- hypoglottis*. Caulescent, procumbent: leaflets oblong, obtuse: spikes ovate, peduncled, longer than the leaf: legumes erect, ovate, channelled, hairy, with reflected points.
Heaths. *Eng. bot. t. 274. Raii synops. 326. t. 12. f. 3.*
- syriacus*. Caulescent, procumbent: heads peduncled: flowers reflected: legumes downy, ovate-oblong.
— *Baub. pin. 351? Lob. ic. 79?*
- humifusus*. Caulescent, prostrate: leaflets oblong, obtuse, villous: heads few-flowered, peduncled, longer than the leaf: legumes oblong, acute, erect, villous.
Cappadocia. *Willd. 3. p. 1286. Flowers blue.*
- leontinus*. Caulescent, decumbent: leaflets elliptic, obtuse: spikes oblong, peduncled, longer than the leaf: legumes oblong, cylindrical, hairy.
Alps of Switzerland. *Jacq. ic. rar. 1. t. 154.*
Leaves with appressed hairs underneath.
- tauricus*. Caulescent, spreading: leaflets linear, downy: spike peduncled, terminal: legumes ovate, acute.
Tauria. *Pall. Astrag. n. 51. t. 38. Plant white-downy.*
- lunatus*. Caulescent, glabrous, perennial: leaves scattered, shorter than the peduncle: legumes 3-sided, lunate, glabrous.
Persia. *Buxb. cent. 3. p. 20. t. 36. f. 2?*
- austriacus*. Caulescent, procumbent: leaflets linear, truncate, emarginate: racemes peduncled, longer than the leaf: wings of the corol bifid: legumes 3-sided, lanceolate, pendulous.
Austria. &c. *Jacq. Austr. t. 195. Pall. Astrag. n. 52. t. 39.*
- subulatus*. Caulescent, procumbent, somewhat shrubby: leaflets linear-lanceolate, downy: racemes peduncled, longer than the leaf: legumes linear-subulate, 3-sided, erect.
Siberia. *Pall. Astrag. n. 27. t. 20. f. A, B.*
- arenarius*. Caulescent, branched, prostrate: leaflets linear-lanceolate, silky, complicated: racemes somewhat flexuous, longer than the leaf: legumes oblong, pubescent.
Germany. *Retz. obj. 3. t. 3. Stipules ovate, bifid.*
- leucophæus*. Caulescent, procumbent: leaflets inversely heart-shaped, silky underneath: racemes peduncled, about as long as the leaves: legumes cylindrical, lanceolate, spreading, glabrous.
— *Willd. 3. p. 1290. Smith Transf. Linn. soc. 1. p. 252.*
Stipules ovate, ciliate: racemes in short heads.

- depressus.* Somewhat caulescent, procumbent: leaflets obovate: racemes shorter than the petiole: legumes cylindrical, lanceolate, reflected.
Alps. *Allion. ped. t. 19. f. 3. Pluk. phyt. t. 79. f. 5.*
- Glaux.* Caulescent, diffuse: heads peduncled, imbricate, ovate; flowers erect: legumes ovate, callous, inflated.
Spain. *Clus. hist. 2. t. 241. Baub. pin. 347.*
Leaflets very small, oval-oblong; hairy underneath.
- reduncus.* Somewhat caulescent: leaflets 15 pair, minute: peduncles longer than the leaf; depressed: legumes hooked downwards.
Russia. *Pall. Astrag. n. 114. t. 82.*
- sinicus.* Caulescent, prostrate: umbels peduncled: legumes prismatic, 3-sided, erect, subulate at the tip.
China. *Leaflets* 7 or 9, nearly orbicular, smooth.
- lineatus.* Caulescent, prostrate: leaflets elliptic, obtuse, silky-villous: spikes peduncled, longer than the leaf: banner of the corol elongated: calyx of the fruit inflated, ovate, nerved.
Levant. *Vahl. symb. 1. p. 59.* Calyx with 10 red striæ.
- albidus.* Caulescent, diffuse, somewhat shrubby, hoary: leaflets 5 pair, elliptic, obtuse: spikes peduncled, longer than the leaf: legumes oblong, villous, as long as the calyx.
A. vesicarius. *Sp. pl. 1071. All. ped. t. 80. f. 1.*
Alps. *Waldst. et Kitaib. pl. rar. Hung. 1. t. 40.*
- nigrescens.* Caulescent, procumbent: leaflets oblong, hairy: peduncles 2-flowered: legumes oblong, inflated, pubescent, 1-celled.
Russia. *Pall. Astrag. t. 53.* Corol violet.
- ornithopodoides.* Caulescent, tufted: leaflets ovate, hoary: racemes peduncled: legumes subulate, recurved, hooked.
Levant. *Lamarck. encycl. 1. p. 305.*
- fragrans.* Caulescent, procumbent: leaflets oblong, acute, hairy: spikes ovate-peduncled, about as long as the leaves: bractes ovate, membranaceous.
Cappadocia. *Willd. 3. p. 1294.* Stipules ovate, appressed.
- declinatus.* Caulescent, procumbent: leaflets oblong, obtuse, hairy: racemes few-flowered, crowded, peduncled, half as long as the leaf: legumes oblong, acute, hairy.
Armenia. *Willd. 3. p. 1294.* Calyx coloured: corol yellow.

barbatus. Caulescent, decumbent: leaflets lanceolate, bristly-villous: spikes ovate, peduncled, nearly equalling the leaves: teeth of the calyx subulate-filiform, longer than the corol, bristly-villous.

Armenia. *Vabl. symb.* 1. p. 58. Plant hairy.

2. Corol shorter than the calyx. *Billard. ic. dec.* 1. t. 18.

Onobrychis. Caulescent, diffuse: peduncles spiked: banner of the corol twice as long as the flower.

Germany; Austria. *Jacq. Austr.* t. 38. *Baub. pin.* 350.

adsurgens. Caulescent, ascending: leaflets oblong: spikes crowded, peduncled, terminal: legumes oblong-lanceolate, channelled and 3-sided, hairy.

Siberia. *Gmel. Sib.* 4. t. 15. *Pall. Astrag.* n. 44. t. 31.

Laxmanni. Caulescent, procumbent: spikes elongated: legumes oblong, triangular, with a groove, mucronate, villous.

Siberia. *Jacq. hort.* 3. t. 38. *Pall. Astrag.* t. 30?

alpinus. Caulescent, procumbent: flowers pendulous, racemed: legumes acute at both ends, hairy.

Alps. *Fl. lapp.* t. 9. f. 1. *Fl. Dan.* t. 51. *Pall. Astr.* t. 32.

pumilio. Nearly stemless, prostrate: leaflets linear-lanceolate, hoary underneath: peduncles 2-flowered, shorter than the leaf.

Curile Islands. *Pall. Astrag.* t. 55. Leaflets 4 pair.

pygmaeus. Caulescent, procumbent: leaflets lanceolate, hairy: flowers axillary, solitary: legumes oblong-lanceolate, pubescent.

Siberia. *Pall. Astrag.* t. 54. Legumes 1-celled.

Ammodytes. Caulescent, procumbent, very much branched: leaflets about 4 pair, silky-hoary, wedge-form, obtuse: peduncles axillary, mostly in pairs: legumes ovate, twin, woolly.

Siberia. *Pall. Astrag.* t. 5. *Pall. it. app.* t. X.

E. Leaflets placed in whorls.

dasyphyllus. Caulescent, procumbent, hoary: leaflets 3 in a whorl, lanceolate: spikes nearly forming heads, peduncled.

Siberia. *Pall. Astrag.* t. 15. *Phaca fibirica.* *Sp. pl.* 1064.

Plant white-hairy: legumes ovate, woolly.

verticillaris. Stemless: leaflets subulate, 4 in a whorl, hairy: scapes spiked, longer than the leaf; lower-flowers remote: legumes lanceolate, downy.

Siberia. *Pall. Astrag.* t. 71. *Pall. it. 3. app.* t. Z. *Phaca.*

- polyphyllus*. Stemless: leaflets 2 or 3 together, oblong, obtuse: scape longer than the leaves: spike forming a head: calyx rough with tubercles.
Siberia. *Pall. Astrag. t. 76. It. 3. app. t. X. f. 1. Phaca.*
- sylvaticus*. Stemless: lower-leaflets in pairs, upper ones simple, oblong, acute: scape longer than the leaves: spikes ovate: calyxes villous: legumes inflated.
Siberia. *Pall. Astrag. t. 78. It. 3. app. t. W. f. 2. Phaca.*
- muricatus*. Stemless: leaflets 3 in a whorl, linear-lanceolate, glabrous: scape as long as the leaves: spikes ovate: legumes lanceolate, curved, muricate.
Siberia. *Pall. Astrag. t. 73. It. 3. app. t. A, a. f. 1. B.*
Plant glabrous: leaflets muricate with tubercles.
- daguricus*. Stemless: lower leaflets in pairs, upper ones simple, linear, silky: scape declined, longer than the leaves: spike forming a head.
Siberia. *Pall. Astrag. t. 72. It. 3. app. t. X. f. 2. Phaca.*
- oxyphyllus*. Stemless: leaflets 3 together, linear-pointed, silky: scape erect, longer than the leaves: spike oblong: legumes ovate, inflated, pointed, pubescent.
Siberia. *Pall. Astrag. t. 74. It. 3. app. t. X. f. 1. Phaca.*
- Baicalia*. Stemless: leaflets mostly in pairs: legumes inflated, ovate, pointed, membranaceous, pubescent.
Siberia. *Pall. Astrag. n. 99. t. 77. f. 1.*
- linarius*. Stemless: leaflets 2, 3 or 4 together, linear, pubescent: scape simple, few-flowered.
Siberia. *Pall. Astrag. n. 101. t. 77. f. 2.*
- F, Scape naked, without a leafy stem.
- cymbiformis*. Nearly stemless: leaflets wedge-form, retuse: flowers nearly sessile: legumes ovate, 3-sided, channelled, glabrous: flowers with hardly any petals.
Portugal. *Willd. sp. pl. 3. p. 1392. n. 96.*
- montanus*. Stemless: leaflets lanceolate, acute, a little hairy: scapes erect, longer than the leaf: flowers in loose spikes, erect: legumes oblong, pubescent, with an inflected point.
Alps. *Jacq. Austr. t. 167. Flowers reddish.*
- physoides*. Stemless: leaflets ovate, a little glaucous: scapes longer than the leaf: flowers in heads: legumes inflated, globular, membranaceous, glabrous.
Siberia. *Pall. Astrag. t. 58. Flowers purplish.*

- ampullatus*. Stemless: leaflets lanceolate, silky: scapes equalling the leaves, about 3-flowered: legumes inflated, globular-ovate, downy, 1-celled.
Siberia. *Pall. Astrag. t. 56. f. 3. id. it. 3. app. t. C, C. f. 4, 5.*
- caespitosus*. Stemless: leaflets oblong, glabrous: scapes nearly equaling the leaves, 5-flowered: legumes inflated, ovate-pointed, pubescent, 1-celled.
Siberia. *Pall. Astrag. p. 70. n. 79. t. 57.*
- longiflorus*. Stemless: leaflets elliptic, retuse, a little hairy: scapes racemed, few-flowered, half as long as the leaves: legumes elliptic, inflated, pointed, glabrous.
Tartary. *Pall. Astrag. t. 60. Gmel. Sib. 4. t. 27.*
- utriger*. Stemless: leaflets oblong, acute, hairy: scapes racemed, few-flowered, half as long as the leaves: legumes elliptic, inflated, pointed, pubescent.
Tartary. *Pall. Astrag. p. 75. n. 82. t. 61.*
- caprinus*. Stemless: leaflets ovate-oblong, acute, hairy: scapes racemed, erect, half as long as the leaves: legumes ovate, tumid, villous.
Barbary. *Morif. hist. 2. sect. 2. t. 24. f. 3.*
Calyx coloured, 10-striate: corol yellow.
- songarius*. Stemless: leaflets lanceolate, silky: scapes erect, twice as long as the leaf: flowers spiked, distant: legumes lanceolate.
Siberia. *Pall. Astrag. t. 51. Flowers violet.*
- caudatus*. Stemless: leaflets oblong, acute, glabrous above: scapes erect, twice as long as the leaf: flowers in close spikes: calyx cylindrical.
Siberia. *Pall. Astrag. t. 50. Flowers purple.*
- follicularis*. Stemless: leaflets ovate, acute, silky-pubescent: scapes erect, longer than the leaf: flowers in close spikes: calyx ovate, inflated.
Siberia. *Pall. Astrag. t. 14. Flowers yellow.*
- densifolius*. Stemless: scape erect, longer than the leaf: leaflets oblong, emarginate: flowers in spiked heads.
2. Scares very long: stem hardly any: legumes woolly.
Levant. *Rauw. it. t. 29. 2) Billard. pl. Syr. 1. t. 9.*
Plant downy: leaflets numerous: flowers blue.
- hirsutus*. Stemless: leaflets elliptic, hoary: scapes erect, longer than the leaf: flowers in globular heads: legumes ovate, woolly.
Levant. *Vabl. symb. . p. 59. Leaflets about 4 pair.*

- globosus.* Stemless: scapes erect, longer than the leaf: heads globular: bractes linear, as long as the calyx.
 Armenia. *Vabl. symb.* 1. p. 60.
- libanotis.* Stemless: scapes as long as the leaves: flowers in ovate spikes: legumes ovate, 3-sided, compressed, acute, villous.
 Libanus. *Billard. ic. rar. syr.* 1. t. 10. A. lanatus.
- bicolor.* Stemless: scapes longer than the leaf: flowers in roundish heads: bractes lanceolate, as long as the calyx: banner lanceolate, twice as long as the other petals.
 Levant. *Vabl. symb.* 1. p. 62. Banner very long.
- psoraloides.* Stemless: leaflets hoary, wedge-shaped, emarginate: scapes longer than the leaf: flowers in oblong heads: calyx 5-awned: legumes oblong, very hairy.
 Levant. *Vabl. symb.* 1. p. 62. Calyx striate.
- laguroides.* Stemless: leaflets lanceolate, hoary: scapes ascending, shorter than the leaf: flowers in globular heads: calyx of the fruit globular, inflated, pubescent.
 Siberia. *Pall. Astrag.* t. 16. It. 3. app. t. C C. f. 3.
- lupulinus.* Stemless: leaflets oblong, emarginate, hoary: scapes erect, shorter than the leaf: flowers in globular heads: calyx of the fruit globular, inflated, woolly.
 Siberia. *Pall. Astrag.* t. 15. Flowers yellow.
- leucanthus.* Stemless: leaflets lanceolate, glabrous: scapes about as long as the leaves: flowers in globular heads.
 Siberia. *Pall. Astrag.* t. 47. Corol whitish flesh-colour.
- argentatus.* Stemless: leaflets lanceolate, silky-silvery: scapes as long as the leaves: flowers in heads: bractes lanceolate, as long as the silky calyx.
 Siberia. *Pall. Astrag.* t. 48. Flowers white.
- candicans.* Stemless: leaflets ovate-lanceolate, pubescent: scapes twice as long as the leaves: flowers in spikes: bractes as long as the calyx: legumes oblong-lanceolate, with an inflexed point.
 Siberia. *Pall. Astrag.* t. 49. Corol white.
- grandiflorus.* Stemless: leaflets oblong-lanceolate, silky: scapes twice as long as the leaf: flowers in loose spikes: banner deeply emarginate: legumes oblong-lanceolate, pubescent.
 Siberia. *Pall. Astrag.* t. 46. Plant large, silky-silvery.
- altaicus.* Stemless: leaflets lanceolate, glabrous: scapes hairy, as long as the leaves: flowers in oblong heads: legumes ovate, inflated, mucronate, pubescent.
 Siberia. *Pall. Astrag.* t. 45. Legumes 1-celled.

- stosus*. Stemless: leaflets lanceolate, 3-nerved, glabrous: scapes longer than the leaves: flowers in ovate heads: calyxes very hairy.
Siberia. *Pall. Astrag.* p. 55. n. 57. t. 44.
- ambiguus*. Stemless: leaflets ovate, slightly pubescent: scapes longer than the leaves: flowers spiked: bractes lanceolate: legumes ovate, pointed, 1-celled.
Siberia. *Pall. Astrag.* t. 43. *Gmel. Sib.* 4. t. 30.
- uralensis*. Stemless, silky: leaflets ovate-lanceolate: scapes erect, longer than the leaves; heads few-flowered: bractes about as long as the calyx: legumes oblong, pointed.
Scotch mountains. *Eng. bot.* t. 466. *Lighf. Scot.* 1. t. 17.
- baicalensis*. Stemless: leaflets lanceolate, silky-pubescent: scapes twice as long as the leaves: flowers in spikes: legumes ovate, inflated, pointed, glabrous.
Siberia. *Pall. Astrag.* n. 70. tab. 52.
- montepessulanus*. Stemless: leaflets elliptic, obtuse: scapes racemed, declined, longer than the leaves: banners elongated: legumes nearly cylindrical, curved.
Montpellier. *Curt. mag.* t. 375. Flowers red.
- elongatus*. Stemless: leaflets elliptic, acute, hoary-pubescent: scapes racemed, erect, longer than the leaves: legumes oblong, hard, acute, hairy, pendulous.
Galatia. *Willd.* 3. p. 1314. Petioles 3-sided.
- latifolius*. Stemless: leaves simple, ternate or pinnate; leaflets ovate, hoary: scapes racemed, declined, longer than the leaves: legumes cylindrical, subulate, slightly curved.
Levant. *Vahl symb.* 1. p. 61. Spike very long.
- cinereus*. Stemless: leaflets elliptic-roundish, silky-hoary: scapes erect, longer than the leaves: flowers spiked, drooping.
Armenia. *Willd.* 3. p. 1315. Spike oblong, elongated.
- alyssoides*. Stemless: leaflets linear-lanceolate, hoary: scapes ascending, longer than the leaves: flowers spiked: legumes oblong, hairy, as long as the calyx.
Levant. *Vahl symb.* 1. p. 61. Plant small, hoary.
- incanus*. Stemless: scapes decumbent: leaflets ovate, nearly sessile, pubescent underneath: legumes cylindrico-subulate, incurved at top, silky-hoary with prostrate down.
South of France. Scapes rough: legume turgid.
- incurvus*. Stemless: leaflets elliptic, mucronate, hoary: scapes longer than the leaves: flowers spiked: legumes oblong, tapering to the base, incurved, glabrous.
Algeira. *Desfont. atl.* 2, t. 203. Scapes pubescent.

- rotundifolius*. Stemless: leaflets roundish, hoary: scapes longer than the leaves: flowers spiked: legumes elliptic, swelling, silky.
 Arabia. *Desfont. atl. 2. p. 182. t. 204.* *A. nummularis*.
 Flowers spiked, peduncled, pale rosy.
- macrorhizus*. Stemless: leaflets ovate, acute, hoary: scapes longer than the leaves: flowers spiked: legumes obovate, swelling, pubescent, with a hooked point.
 Spain. *Cavan. ic. 2. p. 28. t. 133.* Corol purple.
- campestris*. Stemless: calyx and legumes villous: leaflets lanceolate, acute: scape decumbent.
 Germany; Switzerland. *Hall. helv. t. 13.*
 Corol yellow; keel pointed, with a purplish base.
- viscosus*. Stemless: leaflets linear, viscid: scapes longer than the leaves, with glandular hairs above: spike few-flowered: legumes oblong, acute, pubescent.
 Alps. *Vill. delph. 3. t. 43.* *A. foetidus* & *viscosus*.
- leptophyllus*. Stemless: leaflets linear-filiform: scapes declined, few-flowered, as long as the leaves: legumes roundish-ovate, inflated, pubescent.
 Siberia. *Pall. Astrag. t. 66.* *A. Gmel. Sib. 4. t. 24.* B.
 Corol fine rosy: legumes 1-celled.
- sanguinolentus*. Stemless: leaflets obovate, mucronate: scapes longer than the leaves, declined, few-flowered: legumes oblong-linear, compressed.
 Near the Caspian. *Willd. 3. p. 1319.* Leaves glabrous above.
- uncatus*. Without stem or scape: legumes subulate, hooked, longer than the leaves: leaflets inversely heart-shaped.
 Aleppo. *Leaflets* about 19, green.
- pauciflorus*. Stemless: leaflets lanceolate, obtuse, silky, hoary: scapes 2 or 3-flowered, declined, about as long as the leaves.
 Dauria. *Pall. Astrag. t. 66.* B. *Gmel. Sib. 4. t. 26. f. 1.*
 Plant silky-hoary: flowers purple.
- buchtormensis*. Stemless: leaflets oblong, obtuse, pubescent: scapes declined, 2 or 3-flowered, half as long as the leaves: legumes oblong, pointed.
 Siberia. *Pall. Ajrag. t. 62.* A. Flowers yellow.
- testiculatus*. Stemless: leaflets lanceolate, silky-hoary: flowers radical, nearly sessile, aggregate: legumes ovate, swelling, white-downy.
 Near the Caspian. *Pall. Astrag. n. 89. t. 67.*

- rupifragus*. Stemless: leaflets oblong, obtuse, hairy-pubescent: flowers aggregate, on short peduncles: legumes oblong, acute, woolly.
Tauria. *Pall. Astrag. t. 70.* Scapes hardly any.
- diffusus*. Stemless: leaflets lanceolate, acute, hairy-pubescent: flowers aggregate, nearly sessile: calyx with subulate hairy teeth: legumes oblong, somewhat 3-sided, woolly.
Tartary. *Pall. Astrag. t. 68.* Flowers pale yellow.
- galactites*. Stemless: leaflets oblong, acute, somewhat silky: flowers aggregate, nearly sessile: legumes ovate, 2-seeded, inclosed in the calyx.
Siberia. *Pall. Astrag. t. 69.* Flowers milk white.
- nummularis*. Stemless: leaflets roundish, emarginate, hairy: flowers aggregate, nearly sessile: legumes ovate, hairy.
Crete. *Vahl. symb. 1. p. 60.* Leaflets obcordate.
- lanigerus*. Stemless: leaflets elliptic-roundish, woolly: peduncles very short, 3 or 4-flowered: calyx woolly: legumes ovate, swelling, pubescent.
Barbary. *Desfont. atl. 2. p. 181. t. 202.*
- exscapus*. Stemless: leaflets oblong, obtuse, hairy: flowers aggregate, slightly peduncled: calyx with appressed hairs: legumes oblong, woolly.
Austria; Switzerland. *Woodw. t. 253. Pall. Astrag. t. 64.*
- tragacanthoides*. Nearly stemless: flowers radical, numerous, nearly sessile.
Armenia. *Buxb. cent. 3. t. 38. f. 2.* Legume roundish.
- triphyllus*. Stemless: leaves simple and ternate, glabrous: scapes 2-flowered, declined, longer than the leaves.
Siberia. *Pall. Astrag. t. 56. A.* Corol purple.

G. *Shrubs or undershrubs, with the petioles permanent and becoming spinous.*

- Lagopodioides*. Shrubby; petioles spinous: leaflets with spinous points: spikes ovate, peduncled, longer than the leaves: bractes ovate, acute, deciduous.
Armenia. *Willd. Aët. Berol. 1794. p. 28. t. 1. f. 4.*
Calyx very hairy, tubular, with filiform teeth.
- Lagurus*. Shrubby; petioles spinous: leaflets with spinous points: spikes ovate, peduncled, longer than the leaves: bractes ovate, pointed, scarious, permanent.
Armenia. *Willd. Aët. Berol. 1794. p. 28. t. 1. f. 2.*
Corol yellow, which in the last species is purple.

- angustifolius.* Shrubby; younger branches downy, with spinescent petioles: leaflets lanceolate: peduncles somewhat corymbed, 6-flowered, as long as the leaves.
Armenia. Willd. *Act. Berol.* 1794. p. 25. Leaves hoary.
- pungens.* Shrubby; petioles spinescent: leaflets oblong, silky: peduncle longer than the leaves: flowers spiked: calyx with subulate teeth.
Galatia. Willd. 3. p. 1325. Flowers large, white.
- Tragacantha.* Shrubby; petioles spinescent: leaflets elliptic, hoary: peduncles about 4-flowered, as long as the leaves: calyx with ovate teeth.
Spain; Barbary. *Woodv. t.* 98. *Blackw. t.* 264.
Gum *Tragacanth* is procured from this shrub.
- echinoides.* Shrubby; petioles spinescent: leaflets linear-lanceolate, hoary: peduncles 2-flowered, shorter than the leaves.
Crete. Willd. *Act. Berol.* 1794. t. 2. f. 2. A. erectus.
Calyx tubular, with short teeth and appressed hairs.
- retusus.* Shrubby; petioles spinescent: leaflets obovate, slightly retuse: peduncles 4-flowered, shorter than the leaves: calyx with lanceolate teeth.
Levant. Willd. *Act. Berol.* 1794. t. 2. f. 3.
- Poterium.* Shrubby; petioles spinescent: leaflets oblong, hoary: peduncles very short, about 2-flowered.
Granada. *Pall. Astrag. t.* 1. *Moris. sect.* 2. t. 13. f. 2.
- aristatus.* Shrubby; petioles spinescent: leaflets oblong, mucronate, hairy: peduncles very short, about 4-flowered: calyx with setaceous teeth.
Alps. *Pall. Astrag. t.* 3. *Garid. Aix. t.* 104.
- amarus.* Somewhat shrubby; petioles spinescent: leaflets ovate, glabrous: flowers spiked: legumes falcate.
Caspian desert. *Pall. Astrag. t.* 6. Spikes filiform.
- coluteoides.* Shrubby; petioles spinescent: leaflets 16 pair: spike 5-flowered: calyx inflated, villous.
Libanus. *Billard. pl. rar. Syr.* 2. t. 9. Anthyllis.
- tumidus.* Shrubby; petioles spinescent: leaflets 6 pair: flowers mostly solitary, peduncled: calyx of the fruit inflated, villous, with setaceous teeth.
Egypt; Syria. *Russel Alepp. t.* 5. *Tragacantha.*
- armatus.* Shrubby; petioles spinescent: leaflets 8 pair, linear: flowers nearly sessile, axillary, aggregate: calyx of the fruit inflated, villous.
Barbary. *Desfont. atl.* 2. t. 194. Anthyllis.

- creticus*. Shrubby; petioles spinescent: leaflets 3 or 4 pair, lanceolate, hoary: flowers axillary, solitary, sessile: calyx woolly.
 Crete. *Lamarck. encyclop.* 1, p. 318.
 Corol white with purple lines: *legume* small, ovate, hoary.
 From this is collected the white *Gum Tragacanth*.
- leucophyllus*. Shrubby; petioles spinescent: leaflets 6 pair, oblong, rather obtuse, hoary: flowers terminal, nearly sessile: calyx tubular, with ovate teeth.
 Armenia. *Pall. Astrag.* t. 4. f. 3. *A. olympicus*.
- caucasicus*. Shrubby; petioles spinescent: leaflets about 7 pair, lanceolate, mucronate, hairy: flowers in pairs, axillary, sessile: calyx campanulate, with lanceolate teeth.
 Caucasus. *Pall. Astrag.* t. 2. Flowers white.
- gummifer*. Shrubby; petioles spinescent: leaflets about 6 pair, oblong, rather obtuse, glabrous: flowers axillary, sessile, aggregate: calyx glabrous.
 Libanus. *Billard. Journ. Phys.* 1790. p. 53. t. 1.
 From this is gathered a yellow *Gum Tragacanth*.
- Erianthus*. Shrubby; petioles spinescent: leaflets about 5 pair, oblong, acute, glabrous: flowers axillary, sessile, aggregate: calyx globular, woolly.
 Armenia. *Willd.* 3. p. 1332. Petioles yellowish.
- microcephalus*. Shrubby; petioles spinescent: leaflets 4 pair, lanceolate, mucronate, hoary: flowers axillary, sessile, nearly in heads: calyx woolly.
 Armenia. *Tourn. Cor.* 29. Leaves white-downy.
- Eriocephalus*. Shrubby; petioles spinescent: leaflets about 7 pair, lanceolate, villous: flowers in globular heads: teeth of the calyx filiform, feathered and woolly, as long as the corol.
 Armenia. *Tourn. Cor.* 30. Flowers purplish.
- plumosus*. Shrubby; petioles spinescent: leaflets 4 pair, lanceolate, silky-hoary: flowers in heads: teeth of the calyx filiform, feathered and woolly, shorter than the corol.
 Galatia. *Willd.* 3. p. 1333. Corol purple.
- aureus*. Shrubby; petioles spinescent: leaflets 6 pair, linear-lanceolate, nearly glabrous: flowers in globular heads: calyx with subulate villous teeth.
 Armenia. *Willd. Arb. Berol.* 1794. p. 29. t. 1. f. 3.
- compactus*. Shrubby; petioles spinescent: leaflets 4 pair, oblong, mucronate, villous-hoary: flowers in globular heads: calyx with subulate villous teeth.
 Armenia. *Willd. Arb. Berol.* 1794. t. 1. f. 1.

longifolius. Shrubby; petioles spinescent: leaflets 10 pair, lanceolate, mucronate, glabrous: flowers in oblong heads: calyx with filiform villous teeth.

Armenia. *Lamarck. encycl.* 1. p. 319. *Willd.* 3. p. 1334.

pugniformis Shrubby; petioles spinescent: leaflets 10 pair, oblong, mucronate, glabrous: flowers in globular heads: calyx with linear-lanceolate, woolly teeth.

Syria. *Pocock. it.* 3. t. 88. *Willd. Berol.* 1794. 1. 2. f. 1.

1414. BISERRULA. Legume 2-celled, flat, with the partition contrary to the valves, ferrate on both edges.

Pelecinus. BISERRULA.

South of Europe. *Riv. tetr.* 1. 101. *Morif. seA.* 2. t. 9. f. 6.

Stems annual, angular, procumbent: *leaflets* hearted.

1415. DALEA. Wings and keel growing to the column of the stamina: stamina 5 or 10, united without any separate filament: legume 1-seeded.

differtiana. Pentandrous: spikes oblong, peduncled, terminal: bractes as long as the calyx: leaflets 6 pair, linear-wedge-form, retuse, slightly toothed at top.

Pforalea Dalea. *Sp. pl.* 1076.

New Spain. *Hort cliff.* 363. *tab.* 22.

Leaves, as in all the species, unevenly pinnate and dotted underneath: *calyx* hairy: *corol* blue.

alopecuroides. Pentandrous: spikes cylindrical, peduncled, terminal: bractes shorter than the calyx: leaflets about 10 pair, elliptic, retuse, mucronate.

North America. *Willd.* 3. p. 1336. *Corol* pale blue.

candida. Pentandrous: spike cylindrical, peduncled: bractes longer than the flower: leaflets 3 pair, lanceolate.

North America. *Willd. sp. pl.* 3. p. 1337.

Calyx glabrous: *corol* white.

violacea. Pentandrous: spike cylindrical, peduncled: bractes about as long as the calyx: leaflets 2 pair, linear.

North America. *Willd.* 3. p. 1337. *Corol* purple.

Kuhnistera. Pentandrous: flowers in heads, bracted: peduncles corymbed.

Carolina. *Lamarck. encycl.* 3. p. 357. *Kuhnistera.*

- enneaphylla*. Decandrous: spikes in heads, axillary, peduncled: leaflets about 4 pair, oblong, obtuse.
 Psoralea enneaphylla. *Sp. pl.* 1076.
 Carthagera. *Calyx* with capillary hairy teeth.
- phymatodes*. Decandrous: spikes in heads, axillary, peduncled: leaflets about 8 pair, obovate.
 Caraccas. *Jacq. ic. rar.* 3 t. 536. Psoralea.
- nutans*. Decandrous: racemes axillary and terminal; flowers nodding: leaflets many pair, elliptic, serrulate.
 New Spain. *Cavan. ic.* 3. p. 1. t. 201. Psoralea.
- cyrtiodora*. Decandrous: spikes in heads, terminal, peduncled: leaflets 10 pair, obovate.
 New Spain. *Cavan. ic.* 3. t. 271. Corol white.
- mutabilis*. Decandrous: spikes cylindrical, terminal: leaflets 10 pair, inversely heart-shaped.
 Mexico. *Cavan. ic.* 4. t. 394. Corol at first white.
- Lagopus*. Decandrous: spikes cylindrical, terminal: leaflets 15 pair, lanceolate, obtuse.
 Mexico. *Cavan. ic.* 1. t. 86. Corol violet.
- reclinata*. Decandrous: spikes cylindrical, terminal: leaflets about 6 pair, lanceolate, acute, pubescent: stem procumbent.
 Mexico. *Cavan. ic.* 1. t. 87. Corol pale violet.
 All the above species have the leaves glabrous.
- lutea*. Decandrous: spikes cylindrical, terminal: keel of the corol twice as long as the wings: leaflets 8 pair, obovate, retuse, downy: stem procumbent.
 Mexico. *Cavan. ic.* 4. t. 325. Corol yellow.
- tomentosa*. Decandrous: spikes cylindrical, terminal: leaflets 4 pair, obovate, downy: stem erect.
 Mexico. *Cavan. ic.* 3. t. 240. Corol violet.

1416. PSORALEA. *Calyx* as long as the legume: *stamina* with one of the filaments separate: legume 1-seeded, slightly beaked, valveless.

- pinnata*. Leaves pinnate in 2 pairs, linear: peduncles axillary, 1-flowered.
 The Cape. *Herm. lugdb.* t. 273. Peduncles solitary.
- laevigata*. Leaves pinnate: stipules consisting of rather acute very small tubercles.
 The Cape. Flowers purple, not striate.

- odoratissima* Leaves pinnate in 6 or 7 pairs; leaflets linear-lanceolate: peduncles axillary, 1-flowered.
The Cape. *Jacq. hort. schænb. 2. t. 229.*
- verrucosa.* Leaves pinnate and ternate, lanceolate: peduncles axillary, solitary or 3 together, 1 or 3-flowered: branches warty.
The Cape. *Jacq. hort. schænb. 2. t. 226.* *P. angustifolia.*
- aculeata.* Leaves ternate; leaflets wedge-form, with recurved points: flowers axillary, solitary, close together,
The Cape. *Andrews bot. reposit. t. 146.* Branches angular.
- bracteata.* Leaves ternate; leaflets obovate, with recurved points and pellucid dots: flowers in a terminal spiked head: bractes ciliate.
The Cape. *Curt. mag. t. 446.* *Jacq. schænb. 2. t. 224.*
- involutrata* Leaves ternate; leaflets obovate, acute, rigid, glabrous: flowers umbelled, terminal, involucred.
The Cape. *Thunb. prodr. 136.* *Willd. 3. p. 1344.*
- spicata.* Leaves ternate; leaflets obovate, with recurved points, dotted underneath: spike terminal, oblong.
The Cape. *Flowers blue: bractes linear.*
- aphylla.* Stem-leaves and branches ternate and simple; branchlets leafless: stipules somewhat imbricate.
2. Leaves simple, linear-lanceolate. *Thunb. prodr. 135.*
The Cape. *Jacq. hort. schænb. 2. t. 223.* *Breyn. cent. t. 25.*
- multicaulis.* Upper-leaves simple; the rest ternate, with linear-lanceolate mucronate leaflets: peduncles axillary, aggregate, nearly in heads.
The Cape. *Jacq. schænb. 2. t. 230.* Banner white.
- renuifolia.* Upper-leaves simple; the rest ternate, with linear-lanceolate mucronate leaflets: peduncles axillary, solitary.
The Cape. *Jacq. schænb. 2. t. 225.* Wings and keel white.
- axillaris.* Leaves ternate, with lanceolate leaflets: peduncles axillary, 1-flowered.
The Cape. *Peduncles filiform: leaves acute.*
- decumbens.* Leaves ternate; leaflets lance-wedge-form, with recurved points: peduncles axillary, aggregate.
The Cape. *Aiton Kew. 3. p. 80.*
- hirta,* Leaves ternate; leaflets obovate, with recurved points: flowers 3 together, spiked: calyx downy.
The Cape. *Jacq. schænb. 2. t. 228.* Leaves dotted.
- Stachydis.* Leaves ternate, petioled; leaflets oblong, mucronate: spikes terminal, interrupted: calyx villous.
The Cape. *Calyx brown: corol ferruginous.*

- striata.* Leaves ternate; leaflets oblong, mucronate, pubescent underneath: racemes terminal, interrupted.
The Cape. *Thunb. prodr.* 136.
- racemosa.* Leaves ternate; leaflets oblong, mucronate: racemes terminal, elongated.
The Cape. *Thunb. prodr.* 135.
- argentea.* Leaves ternate; leaflets ovate, cut, mucronate, silvery: racemes interrupted.
The Cape. *Thunb. prodr.* 136.
- ramantosa.* Leaves ternate; leaflets oblong, downy underneath: flowers in terminal heads.
The Cape. *Thunb. prodr.* 135.
- repens.* Leaves ternate; leaflets obovate, emarginate: stem creeping: flowers somewhat umbelled.
The Cape. Leaves dotted, glabrous: flowers blue.
- humilis.* Leaves ternate; leaflets ovate-lanceolate: petioles pubescent, smooth: spikes in heads, axillary, peduncled.
Italy; Sicily. *Bess. syst.* 1. 11. f. 2.
- glandulosa.* Leaves ternate; leaflets ovate-lanceolate, pointed: petioles rough; racemes axillary.
Peru. *Arduin. spec.* 24. t. 8. *Fouill. Peru.* 7. t. 3.
- palestina.* Leaves ternate; leaflets ovate; petioles pubescent, grooved: spikes in heads, peduncled, axillary.
Palestine. *Jacq. hort.* 2. t. 184. Flowers violet.
- americana.* Leaves ternate; leaflets roundish-ovate, repand at top: spikes interrupted, axillary.
Madeira. *Jacq. schænb.* 2. t. 227. Spikes oblong.
- capitata.* Leaves ternate and simple, linear: head terminal.
The Cape. Upper-leaves simple.
- rotundifolia.* Leaves simple, ovate, entire: heads and bractes villous.
The Cape. Flowers in roundish heads.
- corylifolia.* Leaves simple, ovate, slightly toothed: spikes ovate.
East Indies. *Burm. Ind.* 1. 49. f. 2. *Pluk. alm.* 1. 96. f. 5.
Upper-leaves sometimes, though rarely, ternate.
- pentaphylla.* Leaves in 5 finger-like unequal divisions.
Mexico. *Juss. art.* 1744. p. 381. t. 17.
- prostrata.* Leaves more than decomposed, in finger-like linear divisions.
The Cape. Racemes roundish: flowers yellow.

1417. TRIFOLIUM. *Flowers* more or less in heads: *legume* hardly longer than the calyx, never bursting, but falling off entire. *Trefoil*.

A. *Legumes* naked, many-seeded; *flowers* racemed.

caeruleum. Racemes oblong, peduncled: legumes swelling, half naked, 2-seeded, mucronate: stem erect: stipules lanceolate, membranaceous.

Bohemia. *Blackw. tab. 284.*

indicum. Legumes racemed, naked, smooth, mucronate, 1-seeded: stem erect.

India; Africa. *Pluk. alm. 246. t. 45. f. 4, 5.* Melilotus.

messanense. Legumes 1-seeded, ovate, acute, naked, with curved wrinkles: racemes shorter than the leaves: stem erect. Sicily; Barbary. *Racemes* short, erect, yellow.

mauritanicum. Legumes 1-seeded, obovate, obtuse, naked, with curved wrinkles: racemes longer than the leaves: stem diffuse.

Barbary. *Willd. sp. pl. 3. p. 1354.*

macrorrhizum. Legumes racemed, naked, wrinkled, 1-seeded, stems and branches ascending: leaflets linear.

Hungary. *Waldst. et Kitaib. pl. rar. Hung. 1. t. 26.*

polonicum. Legumes racemed, naked, 2-seeded, lanceolate: stem erect. Poland. *Flowers* very pale yellow.

dentatum. Legumes racemed, naked, 2-seeded, somewhat wrinkled, rather acute: stipules toothed at the base: stem erect. Hungary. *Waldst. et Kitaib. pl. rar. Hung. 1. t. 42.*

officinale. Legumes racemed, naked, 2-seeded, wrinkled, acute: stipules lance-subulate, undivided: stem erect.

Brakes. *Mart. fl. russ. t. 72. Blackw. t. 80.*

italicum. Legumes racemed, naked, 2-seeded, wrinkled, obtuse: stem erect: leaflets very entire.

Italy; Barbary. *Comm. hort. t. 29.* Melilotus.

cretium. Legumes racemed, naked, 2-seeded, membranaceous, oval: stem nearly erect.

Crete; Barbary. *Leaves* thick, obtuse.

ornithopodioides. Legumes naked, 8-seeded, about 3 together, as long again as the calyx: stems procumbent.

Heaths. *Eng. bot. t. 1047. Curt. Lond. fasc. 2. t. 53.*

B. Lotoidea. *Legumes* covered, many-seeded.

Lupinaster. Heads halved: leaves quinate, sessile: legumes many-seeded.

Siberia. *Gmel. Sib. 4. p. 19. t. 6. f. 1.*

- reflexum.* Heads reflected when in fruit: legumes 3-seeded.
Virginia. *Leaves* soft: *seeds* 2 or 3.
- angulatum.* Heads umbellar, reflected when in fruit: legumes 4-seeded:
stem decumbent, flexuous, with angular grooves.
Hungary *Waldst. et Kitaib pl. rar. Hung. 1. t. 27.*
Heads with peduncled red flowers: *calyx* glabrous.
- strictum.* Heads elliptic: legumes 2-seeded: calyx as long as the corol:
leaflets lanceolate, obtuse, serrulate: stipules rhombic, obtuse, with glandular teeth.
South of Europe. *Waldst. et Kitaib pl. rar. Hung. 1. t. 37.*
- laevigatum.* Heads elliptic: calyx longer than the corol: leaflets lanceolate,
pointed, serrulate: stipules rhombic, acute, toothed.
Barbary. *Desfont. atl. 2. t. 208.*
- caespitosum.* Heads umbellar: legumes 4-seeded: calyx with equal teeth:
leaflets obovate, obtuse, serrate: stem nearly erect.
Switzerland. *Vill. delph. 3. t. 41. T. Thalii.*
Leaflets roundish-truncate at top, not emarginate.
- hybridum.* Heads umbellar: legumes 4-seeded: calyx with nearly
equal teeth; leaflets ovate-oblong, emarginate, serrulate: stem ascending.
Europe. *Mich. gen. 28. t. 25. f. 6.*
- repens.* Heads umbellar: legumes 4-seeded: upper teeth of the calyx
shorter: leaflets ovate-oblong, emarginate, serrulate: stem creeping.
Pastures. *Curt. Lond. fasc. 3. t. 46. Mart. russ. t. 34.*
- comosum.* Heads in globular umbels, imbricate: banners deflected,
permanent: legumes 4-seeded.
America. *Roy. Lugdb. 379.*
- alpinum.* Heads umbellar: scape naked: legumes 2-seeded, pendulous:
leaflets linear-lanceolate.
Alps. *Pon. Bald. t. 340. Leaves* not serrate.
C. Lagopoda. *Calyxes* mostly villous.
- subterraneum.* Heads villous, 4 or 5-flowered: involucre central, reflected,
rigid, stellate, embracing the fruit
Pastures. *Eng. bot. t. 1048. Curt. Lond. fasc. 2. t. 54.*
- globosum.* Heads villous, globular: upper calyxes destitute of florets.
Arabia. *Lower* florets fertile: heads lateral.
- bispidum.* Heads villous, globular, terminal, solitary: calyx with setaceous
teeth, shorter than the corol: stems erect: leaflets obovate, entire.
Barbary. *Desfont. atl. 2. t. 209. f. 1.*
Plant with stiff hairs; those of the stem reflected.

- Cherleri.* Heads villous, globular, terminal, solitary: calyx with setaceous teeth, longer than the corol: stems procumbent: leaflets inversely heart-shaped, entire.
France; Spain. *Bractes* large, coloured at the edge.
- pictum.* Heads villous, nearly globular, terminal, solitary: calyx with setaceous teeth, shorter than the corol: stems diffuse: leaflets obovate, denticulate.
— *Roth. Catalaen.* 2. p. 201. *Willd.* 3. p. 1363.
- sphaeroccephalon.* Heads villous, globular, terminal, solitary: calyx with setaceous teeth, twice as long as the corol: stems procumbent: leaflets wedge-shaped, entire, emarginate.
Barbary. *Desfont. atl.* 2. t. 209. f. 2. *Bractes* roundish.
- saxatile.* Heads villous, nearly globular, terminal and lateral, solitary: calyx with subulate teeth, as long as the corol: leaflets lance-wedge-form, emarginate.
Switzerland. *Allion. pedem.* 1. 59 f. 3. *Bractes* acute.
- capense.* Heads globular, woolly, involucred: stem herbaceous, decumbent: leaflets obovate, obtuse, hairy.
The Cape. *Thunb. prodr.* 136.
- birsutum.* Heads globular, very hairy: stems herbaceous, diffuse: leaflets oblong, very hairy.
The Cape. *Thunb. prodr.* 136.
- lappaceum.* Heads nearly globular, bristly: calyx with subulate teeth, as long as the corol: stems diffuse: leaflets obovate, retuse.
Montpellier. *Corol* 1-petalled, pale whitish.
- diffusum.* Spikes roundish-ovate, villous: calyx with unequal setaceous teeth, as long as the corol: stem erect: leaflets oblong, mucronate, slightly toothed.
Hungary. *Waldst. et Kitaib. pl. Hung.* 1. t. 50.
- Lagopus.* Spikes oblong, villous, terminal, solitary: calyx with setaceous teeth as long as the corol: corol of 1 petal: stems diffuse: leaflets obovate, denticulate.
Spain. *Willd.* 3. p. 1365. Leaves not emarginate.
- stipulaceum.* Heads villous, ovate, terminal: stem herbaceous, decumbent at the base: leaflets cut off, villous.
The Cape. *Thunb. prodr.* 136.
- rubens.* Spikes cylindric-oblong: calyx with villous teeth; the lowest as long as the corol: corol unequal, 1-petalled: stipules ensiform: leaflets lanceolate, obtuse, ferrulate: stem erect.
Italy; Austria. *Jacq. Austr. tab.* 385.

- * *pratense*. Spikes dense, ovate: lowest tooth of the calyx shorter than the tube of the corol: corol 1-petalled, unequal: stipules awned: leaflets oval, mostly entire: stem ascending.
Pastures. 2) *Mart. flor. rust. t. 3. Blackw. t. 20.*
- * *medium*. Spikes lax, nearly globular, solitary: lowest tooth of the calyx as long as the tube of the corol: corol 1-petalled: nearly equal: stipules subulate: leaflets elliptic, very finely ferrulate and striate with veins: stems branched, flexuous.
Pastures. *Eng. bot. t. 190. Jacq. Austr. t. 386.*
- alpestre*. Spikes dense, nearly globular, mostly in pairs: lowest tooth of the calyx as long as the tube of the corol: corol 1-petalled, nearly equal: stipules setaceous: leaflets lanceolate, very finely ferrulate, striate with veins: stems quite simple, stiff.
Europe. *Jacq. Austr. t. 433. Obs. 3. t. 64.*
Heads mostly 2, terminal: stipules green.
- pannonicum*. Spikes dense, oblong-elliptic, solitary: lowest tooth of the calyx shorter than the tube of the corol: corol 1-petalled, unequal: stipules subulate: leaflets oblong-lanceolate, entire, emarginate, villous: stems simple, stiff.
Hungary. *Jacq. Obs. 2. t. 42.* Plant white-villous.
- elongatum*. Spikes lax, elliptic, solitary: lowest tooth of the calyx as long as the wings of the corol: corol 1-petalled, with the banner very long: stipules lanceolate: leaflets lanceolate, villous: stem ascending, branched.
Galatia. *Willd. 3. p. 1369.* Plant villous.
- canescens*. Spikes ovate, lax, solitary: calyx with hairy lanceolate teeth: corol 1-petalled: stipules subulate: leaflets obovate, emarginate, villous: stem simple, ascending.
Cappadocia. *Willd. 3. p. 1369.* Plant white hairy.
- * *maritimum*. Spikes nearly globular, dense: calyx with lanceolate hairy teeth: corol 1-petalled: stipules lanceolate: leaflets lance-obovate, hairy, slightly ferrulate at top: stems branched, diffuse.
Salt marshes. *Eng. bot. t. 220. Pluk. phyt. t. 113. f. 4.*
- squarrosum*. Spikes oblong, a little hairy: lowest tooth of the calyx thrice as long as the rest and reflected: stem herbaceous, erect.
Spain. *Morif. hist. 2. sect. 2. t. 13. f. 1.*
- incarnatum*. Spikes oblong, villous, obtuse, leafless: leaflets roundish-obcordate, ovate, crenate, villous.
Italy. *Curt. mag. t. 328,* Flowers scarlet.

- pallidum*. Spikes roundish, solitary: stipules membranaceous; the upper ones opposite: leaflets roundish: corol 1-petalled: calyx bearded inwardly on the margin, with nearly equal teeth.
Hungary. *Waldst. et Kitaib. pl. Hung.* 1. t. 36.
Stipules ending in a long point: *flowers* white.
- *ochroleucum*. Spikes villous, elliptic: stem erect, branched, downy: lowest tooth of the calyx very long: leaflets oblong; the lowermost inversely heart-shaped.
Pastures. *Eng. bot.* t. 1224. *Curt. Lond. fasc.* 6. t. 49.
- angustifolium*. Spikes villous, conic-oblong: calyx with setaceous nearly equal teeth: leaflets linear.
Europe. *Leaflets* rather obtuse: *stipules* linear.
- involutrum*. Heads roundish, peduncled, surrounded with an orbicular toothed involucre: stipules oblong, awned, toothed: stem erect, branched.
— *Willd.* 3. p. 1373. Plant glabrous: *leaflets* ferrulate.
- *arvense*. Spikes very hairy, cylindrical: calyx with setaceous equal teeth, longer than the corol: leaflets linear-obovate.
Dry fields. *Eng. bot.* t. 944. *Curt. Lond. fasc.* 6. t. 50.
- stellatum*. Spikes hairy, ovate: calyx spreading, equal: stem diffuse: leaflets inversely heart-shaped.
Italy; Sicily. *Calyx* hairy outwardly.
- elypeatum*. Spikes ovate: calyx spreading, with the lower-tooth very large and lanceolate: stipules ovate: leaflets obovate.
The East. *Alp. exot.* 307. tab. 306.
- albidum*. Spikes nearly globular, peduncled: calyx spreading, with the lower tooth linear-subulate: stipules linear-subulate: leaflets oblong.
— *Willd.* 3. p. 1374. *Retz. Obs.* 4. p. 30.
- *scabrum*. Heads ovate, sessile, axillary: calyx with unequal lanceolate pointed rigid teeth, at length recurved: leaflets obovate, ferrulate.
Dry fields. *Eng. bot.* t. 903. *Curt. Lond. fasc.* 6. t. 48.
- *glomeratum*. Heads hemispherical, sessile, axillary: calyx swelling, with unequal spreading heart-shaped pointed rigid teeth, becoming reflected: leaflets obovate, ferrulate.
Pastures. *Eng. bot.* t. 1063. *Curt. Lond. fasc.* 4. t. 51.
- parviflorum*. Heads globular, peduncled, axillary: calyx with unequal subulate spreading teeth, becoming recurved, longer than the corol: leaflets obovate, ferrulate.
Hungary; Siberia. *Willd.* 3. p. 1376.

- * *striatum*. Heads ovate, nearly sessile, mostly solitary, axillary and terminal: calyx elliptic, hairy, grooved, with setaceous unequal teeth: leaflets obovate, nearly entire, pubescent.
Pastures. *Ray synops.* 329. t. 13. f. 3.
- gemellum*. Heads oblong, terminal, in pairs: calyx villous, with unequal setaceous teeth, longer than the corol: leaves wedge-shaped, emarginate, denticulate at top: stems simple.
Spain. *Willd.* 3. p. 1376. One of the heads sessile.
- phleoides*. Heads oblong: calyx hairy, with lance-subulate unequal rigid spreading teeth: leaflets oblong, emarginate, nearly entire; the floral ones linear.
Spain. *Willd.* 3. p. 1377. Floral-leaves very narrow.
- alexandrinum*. Heads oblong, peduncled: calyx villous, with subulate unequal teeth: stem flexuous, erect: upper leaves opposite: leaflets elliptic, denticulate.
Egypt. Lower tooth of the calyx a little longer.
- * *suffocatum*. Heads sessile, lateral, roundish, nearly glabrous: calyx with lanceolate acute recurved teeth, longer than the corol.
Sands. *Eng. bot.* t. 1049. *Jacq. hort.* t. 60.
- uniflorum*. Stemless: peduncles 3-cleft and 3-flowered, shorter than the stipules.
Syria. *Buxb. cent.* 3. t. 31. f. 1, 2. Calyx equal.
D. Vesicaria. Calyx inflated, swelling.
- spumosum*. Heads ovate: calyx of the fruit ovate, inflated, glabrous, with setaceous recurved teeth: general involucre membranaceous, 5-leaved: stem erect.
France; Italy. Legumes longer than the calyx.
- resupinatum*. Heads roundish: corols reversed: calyx of the fruit inflated, membranaceous, pubescent, with setaceous teeth: stems prostrate: leaflets obovate, acute.
Italy; Germany. *Barr. rar.* t. 872. Legume minute.
- tomentosum*. Heads globular: calyx of the fruit inflated, membranaceous, downy, with the 2 lower teeth obliterated: stems prostrate.
Spain; Portugal. *Magn. Monsp.* t. 264.
- fragiferum*. Heads roundish: calyx of the fruit inflated, membranaceous, pubescent, with the 2 upper teeth longer and reflected: stems creeping: leaflets obovate, obtuse.
Pastures. *Eng. bot.* t. 1050. *Curt. Lond. fasc.* 2. t. 55.

E. Lupulina. *Banners of the corol inflected.*

- montanum*. Spikes somewhat imbricate, 2 or 3: banners subulate, withering: calyx naked: stem erect.
Europe. *Riv. t. 12*. Bractes minute.
- speciosum*. Spikes oblong, with the flowers reflected: banners roundish, flat, denticulate, permanent: calyx naked: stem flexuous, prostrate.
Crete. *Willd. 3. p 1382*. Calyx with 3 long teeth.
- agrarium*. Spikes ovate, imbricate: banners deflected, permanent: calyx with subulate unequal glabrous teeth: stem erect: leaflets lance-wedge-form; the middle one sessile.
Europe. *Flor. Dan. t. 558. Vail. Paris. t. 22. f. 3*.
- spadicum*. Spikes oval, imbricate: banners deflected, permanent: calyx with subulate somewhat hairy teeth; the 2 upper ones ovate and very short: stem erect: leaflets obovate; the middle one sessile.
Europe. *Curt. mag. t. 557*. Flowers tawny.
- **procumbens*. Spikes oval, imbricate: banners deflected, permanent, grooved: stems procumbent: leaflets obovate.
Pastures. *Eng. bot. t. 945. Curt. Lond. fasc. 3. t. 45*.
- **filiforme*. Heads lax, few-flowered: peduncles flexuous: banners smooth: stems prostrate: all the leaflets nearly sessile.
Pastures. *Eng. bot. t. 1257. Ray synops t. 14. f. 3*.
- **minus*. Heads hemispherical: peduncles straight, rigid: banners nearly smooth: stems prostrate: common petiole shortest at the base.
Pastures. *Eng. bot. t. 1256. Curt. Lond. fasc. 5. t. 53*.

1418. LOTUS. *Legume cylindrical, stiff: filaments wedge-form: wings converging longitudinally upwards: calyx tubular. Bird's-foot Trefoil.*

A. *Legumes few, not forming a head.*

- maritimus*. Legumes solitary, with 4 membranaceous angles: leaves glabrous: bractes lanceolate.
Europe. *Stem erect: leaflets oval, entire*.
- siliquosus*. Legumes solitary, with 4 membranaceous angles: stems procumbent: leaves pubescent underneath.
Europe. *Jacq. Austr. t. 361. Riv. tetr. t. 79*.
- tetragonolobus*. Legumes solitary, with 4 membranaceous angles: bractes ovate: stems procumbent: middle leaflet slightly toothed.
Sicily. *Curt. mag. t. 151. Comm. hort. t. 26*.

- conjugatus.* Legumes in pairs, with 4 membranaceous angles: bractes oblong-ovate.
Montpellier. Legumes always in pairs.
- bisforus.* Legumes 2 or 3 together, villous, with 4 membranaceous angles: bractes obovate.
Barbary. Desfont. atl 2. t. 210. Erect: flowers yellow.
- tetraphyllus.* Legumes solitary: leaflets inversely heart-shaped, wedge-form: stipules solitary.
Majorca. Bractes 1-leaved: coral yellow.
- edulis.* Legumes mostly solitary, gibbous, incurved.
Spain; Italy. Cavan. ic. 2. t. 157 Moris. f. 2. t. 18. f. 5.
- peregrinus.* Legumes mostly in pairs, a little compressed, linear, drooping: leaflets obovate, hairy: stem procumbent.
Europe; Barbary. Bractes 3-leaved.
- glaucus.* Legumes mostly in pairs, cylindrical, glabrous: leaflets somewhat wedge-form, fleshy, hoary: stipules resembling the leaves.
Madeira. Aiton Kew. 3. p. 92.
- angustissimus.* Legumes mostly in pairs, linear, stiff, erect: stem erect: peduncles alternate.
South of France. Baub. bist. 2. p. 356. f. 2.
- gracilis.* Legumes 2 or 3 together, cylindrico-subulate, straight: calyx ciliate: leaflets oblong: stem erect.
Hungary. Waldf. et Kitaib. pl. rar. Hung.
- diffusus.* Peduncles mostly 1-flowered: stem very much branched, decumbent: leaves and calyx hairy: legumes cylindrical, stiff, very slender.
Maritime rocks. Eng. bot. t. 925.
- coimbrensis.* Peduncles mostly 1-flowered: stem branched, procumbent: leaflets obovate, glabrous: legumes linear, compressed.
Portugal. Willd. sp. pl. 3. p. 1390. Plant glaucous
- arabicus.* Legumes cylindrical, awned: stems prostrate: peduncles 3-flowered: bractes 1-leaved.
Arabia. Jacq. hort. t. 155. Flowers nodding.
- Dioscoridis.* Legumes cylindrical, swelling at the seeds: stems erect: peduncles about 3-flowered: bractes 3-leaved.
Piedmont. Allion. pedem. n. 1131. t. 59. f. 1.
- ornithopoides.* Legumes about 3 together, bowed, compressed: stems diffuse.
Spain; Sicily. Cavan. ic. 2. t. 163. Comm. hort. t. 25.
- jacobaeus.* Legumes about 3 together: stem herbaceous, erect: leaflets linear.
St. James's Island. Curt. mag. t. 79. Mill. fig. t. 168.
Leaflets lance-linear: flowers chocolate colour,

- persicus.* Very hairy: leaflets linear, rather obtuse: peduncles terminal, 3 or 4-flowered: legumes a little turgid.
 Persia; India. *Burm. Ind.* 1173. t. 49. f. 3.
- creticus.* Legumes about 3 together: stem somewhat shrubby: leaflets silky, shining.
 Spain. *Cavan. ic.* 2. t. 156. *Pluk. alm.* t. 43. f. 1.
 Plant weak, silky: legumes oblong, drooping.
- arboreus.* Legumes 5 together: leaflets inversely heart-shaped: stem arboreous.
 New Zealand. *Forst. prodr.* n. 278.

B. Peduncles many-flowered, in a head.

- hirsutus.* Heads roundish: stem erect, hairy: legumes ovate.
 Italy. *Curt. mag.* t. 336. *Morif. sect.* 2. t. 18. f. 14.
 Leaves dotted: calyx red: corol white.
- græcus.* Heads roundish: stem erect: leaflets 5 together: legumes ovate.
 Greece; Arabia. *Stipules* oblong.
- reclus.* Heads nearly globular: stem erect, smooth: legumes straight, glabrous.
 South of Europe. *Morif. sect.* 2. t. 18. f. 13.
 Heads of more than 20 flowers, less than the leaflets.
- palustris.* Heads halved, about 4-flowered: legumes cylindrical, glabrous: stem branched, erect, hairy: leaves hairy.
 Crete. *Willd.* 3. p. 1394. Bractes of 3 lanceolate leaves.
- parviflorus.* Heads halved: legumes oblong, compressed: calyx as long as the corol: bractes 1-leaved.
 Barbary. *Desfont. atl.* 2. t. 211. Plant hairy.
- pedunculatus.* Heads depressed, on very long peduncles: leaflets oblong-lanceolate, pointed: stipules ovate.
 Spain. *Cavan. ic.* 2. p. 52. t. 164.
- prostratus.* Stem prostrate, very much branched: leaves glabrous: peduncles many-flowered: legumes compressed, swelling at the seeds, spreading.
 Algeira. *Desfont. atl.* 2. p. 206. Stem suffruticose.
- corniculatus.* Heads depressed, many-flowered: stem decumbent: legumes cylindrical, spreading.
 Meadows. *Curt. Lond. fasc.* 2. t. 56. *Mart. fl. rust.* t. 53.
- cytisoides.* Heads halved: stem diffuse, much branched: leaves downy.
 Europe. *Barr. rar.* 71. tab. 1031.
- medicagino-ides.* Legumes umbelled, curved: leaflets inversely heart-shaped, denticulate.
 Siberia? *Retz. obs.* 2. p. 23. Stipules half arrowed.

1419. DORYCNIUM. *Calyx* 5-toothed, 2-lipped:
filaments subulate: *stigma* capitate: *legume* tur-
 gid, 1 or 2-seeded.

monspeliense Leaflets linear-lanceolate, acute: calyx with ovate teeth:
 stem shrubby.

Lotus Dorycnium. *Sp. pl.* 1093.

France; Spain. *Lob. ic.* 2. t. 51. *Morif. f.* 2. t. 18. f. 15.

herbaceum. Leaflets obovate, obtuse: calyx with ovate teeth: stem
 herbaceous.

France; Hungary. *Vill. delph.* 3. p. 417. t. 41.

latifolium. Leaflets obovate, obtuse: calyx with subulate teeth: stem
 erect, somewhat shrubby.

Levant. *Willd.* 3. p. 1397. Plant villous.

1420. TRIGONELLA. *Banner* and *wings* nearly
 equal, spreading, resembling a 3-petalled corol.

rubenica. Legumes peduncled, clustered, oblong, linear, straight:
 leaflets oblong, truncate, mucronate.

Siberia. *Gmel. Sib.* 4. tab. 8.

platycarpus. Legumes peduncled, clustered, pendulous, oval, compres-
 sed: stem diffuse: leaflets roundish.

Siberia. *Gmel. Sib.* 4. t. 9. Stipules often toothed.

striata. Legumes peduncled, longer than the leaves.

Abyssinia? *Leaves* with lateral striæ.

polycerata. Legumes nearly sessile, clustered, erect, nearly straight,
 long, linear: peduncles unarmed.

Spain; Italy. *Peduncles* not spinous.

camosa. Legumes peduncled, racemed, declined, hooked, cylindri-
 cal: peduncles spinous, longer than the leaves.

Egypt. *Alp. Egypt.* t. 124. Melilotus.

birsuta. Legumes racemed, reflected: leaflets oblong, obtuse, villous.

The Cape. *Thunb. prodr.* 137.

villosa. Legumes racemed, villous: leaflets obovate, glabrous.

The Cape. *Thunb. prodr.* 137.

armata. Legumes lateral, hairy: leaflets ovate, glabrous: branchlets
 becoming spinous.

The Cape. *Thunb. prodr.* 137.

spinosa. Legumes slightly peduncled, clustered, declined, some-
 what falcate, compressed: peduncles spinous, very
 short.

Crete. *Breyn. cent.* t. 35. f. 1. Stipules toothed.

- corniculata*. Legumes peduncled, clustered, declined, somewhat falcate: peduncles long, a little spinous: stem erect.
South of Europe. *Morif. hist. 2. sect. 2. t. 16. f. 11.*
- monspeliaca*. Legumes sessile; clustered, curved, divaricate, inclined, short: peduncle mucronate, unarmed.
France; Hungary. *Breyn. cent. 80. t. 33. f. 2.*
- glabra*. Legumes umbelled, reflected; glabrous: leaflets ovate, toothed, glabrous.
The Cape. *Thunb. prodr. 137.*
- tomentosa*. Legumes peduncled; 3 together: leaflets and branches downy.
The Cape. *Thunb. prodr. 137.*
- laciniata*. Legumes peduncled, somewhat umbelled, elliptic: leaflets wedge-form, toothed: stipules jagged.
Egypt. *Stem filiform.*
- pinnatifida*. Legumes sessile, about 3 together, linear, nearly erect: leaflets truncate, wedge-form, with pinnatifid teeth.
Spain. *Cavan. ic. 1. t. 38.* Stipules oblong-lanceolate.
- Fœnum græcum*. Legumes sessile; stiff, nearly erect, somewhat falcate, pointed: stem erect. *Fenugreek.*
Montpellier. *Woodv. t. 158. Blackw. t. 38.*
- indica*. Legumes sessile, mostly solitary, somewhat falcate: leaflets very entire: stem diffuse.
East Indies. *Pluk. alm. 226. t. 200. f. 1.* Lotus.

1421. MEDICAGO. Legume compressed, spiral, forcing back the keel of the corol from the banner.

A. Legumes crescent-shaped, more or less twisted.

Moon-Trefoil.

- arborea*. Legumes lunate, very entire on the margin: stem arborescous.
Naples. *Mart. fl. rust. t. 100. Miller fig. 2. 175.*
- radiata*. Legumes kidney-form, toothed on the margin: leaves ternate.
Italy. *Gærtn. sem. 2. t. 155. Morif. f. 2. t. 16. f. 3.*
- circinnata*. Legumes kidney-form, toothed on the margin: leaves pinnate.
2. Legumes very entire. *Gærtn. sem. 2. t. 155.*
Spain; Italy. *Riv. tetr. 201. t. 87.*

- *sativa*. Peduncles racemed: legumes smooth, spirally twisted: stipules very entire: leaflets oblong, toothed.
Lucerne.
 Meadows. *Mart. flor. rust. t. 48. Moris. sect. 2. t. 16. f. 2.*
- prostrata*. Peduncles racemed: legumes smooth, spirally twisted: stipules toothed at the base: leaflets linear, toothed at top.
 Hungary; Italy. *Jacq. hort. 1. t. 89. Flowers yellow.*
- *falcata*. Peduncles racemed: legumes sickle-shaped, pubescent: leaflets oblong, toothed at top.
 Borders of fields. *Eng. bot. t. 1016. Mart. rust. t. 86, 87.*
- glutinosa*. Peduncles racemed: legumes sickle-shaped, with viscid hairs: calyx viscid-hairy: leaflets obovate, toothed at top.
 Tauria. *Willd. 3. p. 1406. Stems pubescent.*
- *lupulina*. Spikes oval: legumes kidney-form, wrinkled, 1-seeded: stipules entire: leaflets obovate.
 Pastures. *Eng. bot. t. 971. Curt. Lond. fasc. 2. t. 57.*
- obscura*. Peduncles racemed: legumes kidney-form, 2-seeded: stipules toothed: leaflets rhombic-ovate.
 South of Europe? *Retz. obs. 1. p. 24. t. 1.*

B. *Legumes spirally twisted. Medick.*

- orbicularis*. Peduncles about 2-flowered: legumes unarmed, spirally twisted, orbicular, flattish: stipules in many setaceous divisions: leaflets obovate, toothed.
 Europe. *Gartn. sem. 2. t. 155. Moris. f. 2. t. 15. f. 1. 2) 2.*
- elegans*. Peduncles about 2-flowered: legumes unarmed, spirally twisted, orbicular, flat, transversely wrinkled on the margin: stipules toothed: leaflets rhombic-ovate, toothed.
 Sicily. *Moris. hist. 2. p. 152. sect. 2. t. 15. f. 4.*
- scutellata*. Peduncles about 2-flowered: legumes unarmed, spirally twisted, orbicular, convex on the base, flat above, with concentrically spiral whorls: stipules toothed: leaflets oblong, toothed.
 South of Europe. *Moris. hist. 2. sect. 2. t. 15. f. 3.*
- Helix*. Peduncles many-flowered: legumes unarmed, spirally twisted, orbicular, flat, with distant whorls: stipules with ciliate teeth: leaflets obovate, toothed.
 Europe? *Willd. 3. p. 1409. Whorls 2, remote.*

- tornata*. Peduncles many-flowered: legumes unarmed, spirally twisted, cylindrical, flat on both sides, with distant whorls: stipules ciliate-toothed: leaflets obovate, toothed.
South of Europe. *Sp. pl.* 1098. *M. polymorpha tornata*.
- turbinata*. Peduncles about 3-flowered: legumes unarmed, spiral, cylindrical, convex on both sides, with the whorls imbricate: stipules toothed: leaflets rhombic-ovate, toothed.
South of Europe. *Morif. 2. p.* 153. *sect. 2. t.* 15. *f.* 3.
- tuberculata*. Peduncles about 2-flowered: legumes unarmed, spiral, cylindrical, flattish both sides, with the whorls tubercled: stipules ciliate-toothed: leaflets rhombic-obovate, toothed.
South of Europe. *Morif. 2. sect. 2. t.* 15. *f.* 6.
- aculeata*. Peduncles about 2-flowered: legumes spiral, cylindrical, flattish on both sides, with the whorls muricate on the edge: leaflets rhombic-obovate, toothed.
— *Willd. 3. p.* 1410. Legumes prickly, thick.
- Murex*. Peduncles about 2-flowered: legumes spiral, cylindrical, a little convex both sides, with straight prickles: stipules ciliate-toothed: leaflets obovate, toothed.
— *Willd. 3. p.* 1410. Prickles thick, subulate.
- intertexta*. Peduncles about 2-flowered: legumes spiral, with setaceous pubescent appressed reflected prickles: stipules ciliate-toothed: leaflets obovate, toothed.
South of Europe. *Morif. sect. 2. t.* 15. *f.* 7, 8, 9.
- ciliaris*. Peduncles about 2-flowered: legumes spiral, oval, with pubescent subulate straight prickles: stipules ciliate-toothed: leaflets obovate, toothed.
South of France. *Spines* straight, villous.
- carstiensis*. Peduncles many-flowered: legumes spiral, compressed both sides, with subulate straight prickles: stipules toothed: leaflets ovate, toothed: stem erect.
Alps. *Jacq. ic. rar. 1. t.* 156. Flowers umbelled.
- maculata*. Peduncles about 3-flowered: legumes spiral, compressed both sides, with subulate curved prickles: stipules toothed: leaflets inversely heart-shaped, toothed, glabrous, with a spot in the middle.
M. polymorpha. Smith fl. Brit. 2. p. 797.
Pastures. *Curt. Lond. fasc. 3. t.* 47. *Mart. fl. russ. t.* 76.

tentaculata. Peduncles about 3-flowered: legumes spiral, cylindrical, flat both sides, with glabrous lanceolate closely appressed prickles pointing 2 ways: stipules toothed: leaflets obovate, toothed.

South of Europe. *Gartn. sem. 2. t. 155*. Stipules subulate.

coronata. Peduncles many-flowered: legumes spiral, cylindrical, flat both sides, pubescent, with closely appressed subulate prickles pointing 2 ways: stipules toothed at the base: leaflets inversely heart-shaped, toothed.

South of France. *Morif. sect. 2. t. 15. f. 16*.

apiculata. Peduncles many-flowered: legumes spiral, flat both sides, with 3 whorls, reticulate, muricate on the edge: stipules ciliate-toothed: leaflets obovate, toothed.

South of Europe. *Morif. 2. sect. 2. t. 15. f. 14?*

denticulata. Peduncles many-flowered: legumes spiral, flat both sides, with 2 whorls, reticulate, with divergent prickles on the edge: stipules ciliate-toothed: leaflets obovate, toothed.

South of Europe. *Willd. sp. pl. 3. p. 1414. n. 26*.

muricata. Peduncles many-flowered: legumes spiral, glabrous, flat both sides, with 5 whorls and very short subulate prickles: stipules ciliate-toothed: leaflets obovate, toothed, hairy.

Pastures. *Morif. hist. 2. sect. 2. t. 15. f. 11*.

Gerardi. Peduncles about 2-flowered: legumes spiral, villous, flat both sides, with 5 whorls and subulate straight hooked prickles: stipules with setaceous teeth: leaflets obovate, toothed.

South of Europe. *Morif. hist. 2. f. 2. t. 15. f. 18*.

recta. Peduncles 1-flowered: legumes spiral, with hooked prickles: stipules entire: leaflets wedge-form, toothed, pubescent: stem erect.

Barbary. *Desfont. atl. 2. p. 212*. Plant silky.

marina. Peduncles many-flowered: legumes spiral, roundish, muricate: stipules undivided: leaflets downy, obovate, entire.

Spain, &c. *Cavan. ic. 2. t. 130*. *Morif. sect. 2. t. 15. f. 10*.

Terebellum. Peduncles many-flowered: legumes spiral, cylindrical, flat both sides, with 5 whorls and very short subulate reflected prickles pointing 2 ways: stipules ciliate-toothed: leaflets obovate, retuse, toothed.

South of Europe. *Morif. hist. 2. f. 2. t. 15. f. 20, 21*.

- tribuloides*. Peduncles 2-flowered: legumes spiral, cylindrical, flat both sides, with conic reflected prickles pointing 2 ways: stipules toothed: leaflets obovate, toothed.
South of Europe. *Willd. 3. p. 1416*. Prickles not appressed.
- uncinata*. Peduncles many-flowered: legumes spiral, cylindrical, flat both sides, with distant whorls and reflected subulate hooked prickles pointing 2 ways: stipules toothed: leaflets obovate, toothed.
South of Europe. *Willd. sp. pl. 3. p. 1417*.
- rigidula*. Peduncles many-flowered: legumes spiral, cylindrical, with straight spreading conic prickles: stipules toothed: leaflets obovate, toothed.
South of Europe. *Baub. pin. 329*.
- minima*. Peduncles many-flowered: legumes spiral, hairy, with straight subulate hooked prickles: stipules very entire: leaflets silky, obovate, toothed.
Sandy pastures. *Fl. Dan. tab. 211*.
- nigra*. Peduncles about 2-flowered: legumes spiral, cylindrical, with the whorls close together, and subulate straight hooked prickles: stipules ciliate-toothed: leaflets obovate, toothed.
South of France. *Morif. hist. 2. sect. 2. t. 15. f. 19*.
- laciniata*. Peduncles about 2-flowered: legumes spiral, cylindrical, with subulate straight hooked prickles: stipules ciliate-toothed: leaflets linear, deeply toothed, truncate.
South of Europe. *Breyn. cent. 81. tab. 34*.

CLASS XVIII. POLYADELPHIA.

Stamina united, in more than 2 sets.

ORDER I. DECANDRIA.

1422. THEOBROMA. *Calyx* 5-leaved: *petals* 5: *nectary* cup-shaped, 5-horned: *filaments* 5, each with 2 antheræ: *Style* 1: *stigma* 5-cleft: *capsule* 5-celled: *seeds* imbedded in pulp.

ORDER II. DODECANDRIA.

1423. BUBROMA. *Calyx* 3-leaved: *petals* 5: *nectary* 5-cleft: *filaments* 5, each with 3 antheræ: *style* 1: *stigma* undivided: *capsule* 5-celled, with 10 rows of perforations.
1424. ABROMA. *Calyx* 5-leaved: *petals* 5: *nectary* 5-cleft: *filaments* 5, each with 3 antheræ: *styles* 5: *capsule* 5-winged, 5-celled: *seeds* coated.

ORDER III. ICOSANDRIA.

1425. CITRUS. *Calyx* 5-toothed: *petals* 5: *stamina* 20, placed in a cylinder, united into several sets: *pistil* 1: *berry* celled, filled with vesicular pulp.

ORDER IV. POLYANDRIA.

1426. MELALEUCA. *Calyx* 5-parted, half superior: *petals* 5: *capsule* half invested with the berried calyx.
1428. LUHEA. *Calyx* double; the outer one 9-leaved, inner one 5-parted: *petals* 5: *nectaries* 5, pencil-form: *style* 1.
1429. DURIO. *Calyx* 5-cleft, cup-shaped, inferior: *petals* 5, small: *style* 1: *stamina* in 5 sets, each consisting of 7: *pome* 5-celled.
1427. GLABRARIA. *Calyx* 5-cleft, inferior: *petals* 5: *style* 1: *stamina* in 5 sets, each consisting of 6: *drupe*.
1430. SYMPLOCOS. *Calyx* 5-cleft, inferior: *petals* 5: *stamina* in a quadruple series, growing to the corol.
1431. HYPERICUM. *Calyx* 5-parted, inferior: *petals* 5: *styles* 1, 3, or 5: *capsule* many-seeded.
1432. ASCYRUM. *Calyx* 2-leaved, inferior: *petals* 4: *styles* 2: *capsule* 2-valved.

ORDER I. DECANDRIA.

1422. THEOBROMA. *Calyx* 5-leaved: *petals* 5, vaulted: *nectary* cup-shaped, 5-horned: *filaments* 5 of them bearing 2 antheræ each, and 5 barren: *style* filiform: *stigma* 5-parted: *capsule* 5-celled, without valves: *seeds* imbedded in a butyraceous pulp.

Cacao. Leaves very entire, glabrous. *Chocolate-Tree.*
 South America. *Sloane Jam. t. 100. Catesby carol. 3. t. 6.*
Tree 20 feet high: *leaves* oblong: *flowers* red.
Chocolate is prepared from the bruised kernels.

guianensis. Leaves pointed, repand-toothed, downy underneath.
 Guiana. *Aubl. Gui. 2. t. 275.* Fruit reddish-downy.

ORDER II. DODECANDRIA.

1423. BUBROMA. *Calyx* 3-leaved: *petals* 5, 2-horned: *nectary* campanulate, 5-cleft: *filaments* 5, growing outwardly to the nectary, each bearing 3 antheræ: *style* simple: *capsule* woody, tubercled, without valves, with 10 rows of perforations.

Guazuma. BUBROMA. *Bastard Cedar.*
 Jamaica. *Cavan. ic. 3. t. 299. Trev. Ebret. t. 76.*
Tree 40 feet high: *leaves* oblong-hearted, alternate, pointed, ferrate, dependant: *flowers* racemed.

1424. ABROMA. *Calyx* 5-leaved: *petals* 5: *nectary* cup-shaped, 5-cleft: *filaments* 5, inserted between the divisions of the nectary, each bearing 3 antheræ: *styles* 5, subulate: *capsule* membranaceous, 5-winged, 5 celled: *seeds* winged.

angusta. Leaves 7-angled; the floral ones ovate-lanceolate, pointed, slightly toothed: *peduncles* axillary.

East Indies. *Jacq. hort. 3. t. 1. Miller illustr.*

Stem simple: *leaves* ferrate, reticulate: *flowers* drooping.

Wheleri. Leaves ovate-lanceolate, pointed, more or less toothed: *peduncles* opposite the leaves.

East Indies. *Retz. obs. 5. p. 27.* Shrub branched.

ORDER III. ICOSANDRIA.

1425. CITRUS. *Calyx* 5-cleft: *petals* 5, oblong: *antheræ* 20; the filaments united into various bodies: *berry* 9-celled.

- medica.* Petioles linear: leaves ovate, pointed. *Lemon.*
Asia. *Woodv.* t. 184. *Blackw.* t. 361, 362.
- angulata.* Petioles not winged: leaves ovate, acute: fruit angular.
Amboina. *Rumph. amb.* 2. p. 110. t. 32.
Fruit small, glutinous, 4 or 5-angled: *spines* stipular.
- japonica.* Petioles winged: leaves acute: stem shrubby.
Japan. *Thunb. ic. Jap.* t. 15. Peduncle drooping.
- Aurantium.* Petioles winged: leaves elliptic, pointed: stem arboreous.
Orange-Tree.
India. *Woodv.* t. 183. *Blackw.* t. 349.
- decumana.* Petioles winged: leaves obtuse, emarginate.
Indies. *Sloane Jam.* 1. t. 12. f. 2, 3. *Rumph. amb.* 2. t. 24. f. 2.
- trifoliata.* Petioles winged: leaves ternate, ferrate.
Japan. *Kampf. Amoen.* 801. t. 802.

ORDER IV. POLYANDRIA.

1426. MELALEUCA. *Calyx* 5-parted, half superior: *petals* 5: *filaments* numerous, united into 5 bodies: *style* 1: *capsule* half invested by the calyx, 3-celled.

A. Leaves alternate.

- Leucadendron.* Leaves alternate, lanceolate, pointed, oblique in a falcate manner, 5-nerved: branchlets and petioles glabrous.
East Indies. *Woodv.* t. 229. *Rumph. amb.* 2. t. 16.
Tree with a black trunk and white leaves and branches: *flowers* sessile. From it is distilled the green aromatic oil known by the name of *Cajeput* or *Caju Puti*.
- viridiflora.* Leaves alternate, elliptic-lanceolate, coriaceous, 5-nerved: branchlets and petioles pubescent.
New Holland. *Cavan. ic.* 4. t. 333. *Metrosideros*.
- laurina.* Leaves alternate, obovate-lanceolate, singly nerved: peduncles axillary, forked, pubescent.
New Holland. *Smith Transf. Linn. soc.* 3. p. 275.
- squarrosa.* Leaves scattered or opposite, ovate, not pungent, many-nerved: flowers lateral: calyx with smooth teeth.
New Holland. *Smith Transf. Linn. soc.* 6. p. 300.

stypbeloides. Leaves alternate, ovate, with pungent points, many-nerved: flowers lateral: calyx with striate mucronate teeth.

New Holland. *Smith Transf. Linn. soc.* 3. p. 275.

ericifolia. Leaves scattered or opposite, linear, nerveless, slightly recurved: flowers lateral, crowded towards the tops of the branchlets.

New Holland. *Andrews bot. repos.* 1. 175.

nodosa. Leaves scattered, linear, with pungent points, straight: flowers clustered towards the tops of the branches.

New Holland. *Cavan. ic.* 4. t. 334. *Metrosideros*.

armillaris. Leaves scattered, linear, mucronate, recurved at the tip: flowers lateral: filaments very long, linear, in many radiate divisions at the tip.

New Holland. *Cavan. ic.* 4. t. 335. *Metrosideros*.

genitifolia. Leaves scattered, lanceolate, mucronate, 3-nerved, with numerous dots: flowering-branches terminal, lax: filaments in many radiate divisions at the top.

New Holland. *Smith Linn. Transf.* 3. p. 277.

B. *Leaves opposite.*

linariifolia. Leaves opposite, linear-lanceolate, 3-nerved, with numerous dots underneath: flowering-branches terminal, lax: filaments pinnate.

New Holland. *Cavan. ic.* 4. t. 336. f. 1. *Metrosideros*.

thymifolia. Leaves opposite, elliptic-lanceolate, nerveless: flowering-branches lateral, very short, few-flowered: filaments branched as far as the middle.

New Holland. *Cavan. ic.* 4. t. 336. f. 2. *Metrosideros*.

cyrtocifolia. Leaves opposite, elliptic-oblong, singly nerved: flowers clustered: filaments very long, linear, in many radiate divisions at top.

New Holland. *Andrews bot. repos.* n. 51. t. 200.

1427. GLABRARIA. Calyx 5-cleft: petals 5: nectary placed on the receptacle, and composed of bristles as long as the calyx: stamina 30, 6 in each set: drupe.

1428.

GLABRARIA.

East Indies. *Rumph. amb.* 3. p. 71. t. 44.

Tree large: leaves alternate, ovate-lanceolate, entire, downy underneath: flowers in axillary clusters.

1428. LUHEA. *Calyx* double; the outer one 9-leaved, inner one 5-parted: *petals* 5: *nectaries* 5, pencil-form: *style* solitary.

speciosa. LUHEA.

Caraccas. Willd. *Act. Berol.* 3. p. 410. t. 5.

Tree with alternate brown branches: *leaves* alternate, oblong, obtuse, unequally toothed, white downy underneath: *flowers* white, in terminal few-flowered racemes.

1429. DURIO. *Calyx* 5-cleft, cup-shaped, interior: *petals* 5, small: *style* 1: *stamina* in 5 sets, each consisting of 7: *pome* 5-celled.

zibethinus. DURIO.

East Indies. Rumph. *amb.* 1. p. 99. t. 29.

Tree with alternate leaves: *flowers* in loose heads, beneath the leaves, yellowish-white: *fruit* large.

1430. SYMPLOCOS. *Calyx* 5-cleft, superior: *petals* 5—8, united into a tube at the base: *stamina* in a quadruple row, growing to the tube of the corol: *drupe* dry, 5-celled.

martinicensis. Peduncles somewhat racemed: leaves quite glabrous, crenulate.

Martinico. Jacq. *Amer.* t. 175 f. 68 Swartz *obs.* t. 7. f. 1.

Leaves ovate, serrate, shining: *flowers* white.

Ciponima. Peduncles many-flowered: leaves entire, villous underneath.

Guiana. Aubl. *Gui.* 1. t. 226. Cavan. *diff.* 7. t. 217.

Arechea. Peduncles about 5-flowered: leaves serrate, nearly naked.

Peru. L'Herit. *Trans. Linn. soc.* 1. p. 176.

oblopetala. Peduncles about 2-flowered: petals 8: leaves quite glabrous, repand-toothed at top.

Jamaica. Swartz *prodr.* 109.

tinctoria. Flowers crowded, sessile: leaves a little glaucous.

Hopea tinctoria. Mant. 105.

Carolina. Catesby *Carol.* 1. p. 54. t. 54.

Alstonia. Flowers about 10-petalled, sessile, 3 or 4 together.

Alstonia theæformis. Linn. *suppl.* 264.

South America. Shrub resembling the Thea Bohea.

1431. **HYPERICUM.** *Calyx* 5-parted, inferior:
petals 5: *filaments* numerous, in 3 or 5 sets,
 united at the base: *capsule* many-seeded.

St. John's Wort.

A. With 5 styles.

balearicum. Flowers with 5 styles, solitary, terminal: leaves oblong,
 obtuse, undulate, warty: branches warty.

Majorca. *Curt. mag. t. 137. Mill. fig. t. 54*

Stems square: *leaves* flexuous, warted on the margin.

Brachys. Flowers with 5 styles, monadelphous: stem shrubby: leaves
 subulate, imbricate, glabrous.

New Granada. *Smith ic. ined. t. 41.*

angustifolium. Flowers with 5 styles, terminal, solitary: styles united:
 leaves linear-lanceolate, not dotted, reflected at the
 base: stem shrubby.

Bourbon. *Lamarck. encycl. 4. p. 139.*

lanceolatum Flowers with 5 styles, terminal, solitary: styles united:
 leaves lanceolate, dotted on the margin: stem shrubby.

Bourbon. *Lamarck. encycl. 4. p. 138.*

Leaves with a row of brown dots at the edge.

kalmianum. Flowers with 5 styles, corymbed, terminal: leaves linear-
 lanceolate: stem shrubby.

Virginia. *Capsule* ovate, as long as the calyx.

cariennense. Styles 5: flowers corymbed, terminal: corol hairy: leaves
 oblong-ovate, pointed, glabrous, with rough dots un-
 derneath: stem shrubby.

Cayenne. *Flowers* white.

laurifolium. Styles 5: flowers panicled, terminal: petals as long as the
 calyx: leaves ovate, glabrous: stem shrubby.

New Granada. *Linn. suppl. 345. H. petiolatum.*

bacciferum. Styles 5: flowers panicled, terminal: petals hairy: leaves
 ovate, pointed, hoary underneath: stem shrubby.

Guiana. *Aubl. Gui. 2. tab. 311.*

latifolium. Styles 5: flowers panicled, terminal: leaves petioled,
 hearted, oblong, pointed, downy underneath: stem
 shrubby.

Guiana. *Aubl. Gui. 2. t. 312. f. 1.*

sessifolium. Styles 5: flowers panicled, terminal: leaves nearly sessile,
 heart-shaped, ovate, pointed, downy underneath: stem
 shrubby.

Guiana. *Aubl. Gui. 2. t. 312. f. 2.*

- monogynum*. Styles 5, united: flowers terminal, somewhat corymbed: stamina longer than the corol: leaves oblong-lanceolate, obtuse, sessile, glabrous: stem shrubby.
China. *Curt. mag. t. 344. Mill. fig. t. 151. f. 2.*
- patulum*. Styles 5: flowers solitary, terminal: stem somewhat shrubby, lax: leaves ovate, revolute at the edge.
Japan. *Thunb. ic. Jap. t. 17. Leaves ferruginous beneath.*
- calycinum*. Styles 5: flowers solitary, terminal: stem shrubby, branched: calyx ovate, very obtuse: leaves 2-rowed, oblong.
Greece. *Curt. mag. t. 146, Moris. sect. 5. t. 35.*
- ascyroides*. Styles 5, as long as the stamina: flowers terminal: calyx with ovate-lanceolate leaves: stem square, herbaceous, simple: leaves sessile, oblong, acute, glabrous.
Pennsylvania. *Willd. sp. pl. 3. p. 1443.*
- Ascyron*. Styles 5, shorter than the stamina: flowers terminal: calyx with roundish-ovate leaves: stem square, herbaceous, simple: leaves sessile, oblong, acute, glabrous.
Siberia. *Gmel. Sib. 4. t. 69. Calyx obtuse.*
- pyramidalum*. Styles 5, shorter than the stamina: flowers terminal: calyx with ovate acute leaves: stem nearly square, herbaceous, branched: leaves sessile, oblong, acute, glabrous.
North America. *Flowers all terminal.*
- alternifolium*. Styles 5: flowers axillary, solitary: leaves alternate, lanceolate: stem shrubby.
East Indies. *Vahl. symb. 2. p. 85. t. 42.*
Calyx with rounded glabrous leaves, very short.
- guineense*. Flowers with 5 styles, somewhat umbelled: stem shrubby, with cylindrical branches: leaves ovate, acute.
Guinea. *Linn. diff. de Hyper. p. 4. t. 1. f. 1.*
- Richeri*. Flowers with 5 styles, corymbed, terminal: calyx with ciliate teeth: stem erect, herbaceous, quite simple: leaves sessile, ovate, dotted on the margin.
Dauphigny. *Vill. delph. 4. p. 501. t. 44.*
Leaves roundish-ovate: calyx not bearded.

B. *Styles 3: calyx very entire.*

- * *Androsæmum*. Flowers with 3 styles, terminal: calyx with unequal roundish-ovate divisions: fruit pulpy: leaves ovate, sessile: stem shrubby, compressed.
Thickets. *Eng. bot. t. 1225. Curt. Lond. fasc. 3. t. 48.*
- emarginatum*. Flowers with 3 styles, terminal: calyx with lanceolate divisions: fruit pulpy: leaves heart-ovate, sessile, emarginate: stem shrubby, cylindrical.

- olympicum*. Flowers with 3 styles, terminal: calyx with unequal oblong acute divisions: stamina shorter than the corol: leaves sessile, oblong-lanceolate, with pellucid dots.
Olympus. *Mill. fig. t. 151. f. 1. Dill. elth. t. 151. f. 183.*
- petiolatum*. Styles 3: leaves ovate, petioled, entire, downy underneath: stem shrubby, square, compressed.
Brasil. *Leaves* petioled, acute.
- arborescens*. Styles 3: corol and calyx smooth, glabrous: leaves elliptic: racemes cross-armed: stem arborescent.
East Indies. *Vahl. symb. 2. p. 86. t. 43.*
- foliosum*. Styles 3: stamina as long as the corol: calyx lanceolate, acute: leaves sessile, ovate-oblong, glabrous.
Azores. *Jacq. hort. schænb. 3. p. 27. t. 299.*
- floribundum*. Styles 3: calyx ovate, acute, slightly ciliate: stamina shorter than the corol: leaves lance-elliptic: stem shrubby.
Madeira. *Pluk. alm. t. 392. f. 1. Comm. hort. 2 t. 68.*
- canariense*. Styles 3: calyx obtuse: stamina shorter than the corol: stem shrubby.
Canaries. *Aiton Kew. 3. p. 104.*
- glatum*. Styles 3: calyx lance-ovate, acute: stamina longer than the corol: stem shrubby: leaves ovate-oblong.
North America. *Aiton Kew 3. p. 104.*
- bircinum*. Styles 3: calyx lanceolate, acute: stamina longer than the corol: leaves oblong: stem suffruticose.
Sicily. *Dill. elth. t. 151. f. 182. 2) f. 181. Leaves* fetid.
- inodorum*. Styles 3: calyx lanceolate, acute: stamina as long as the corol: leaves ovate, rather obtuse: stem shrubby.
Cappadocia. *Branches* 2-edged: *leaves* inodorous.
- chinense*. Styles 3: peduncles axillary, 2-flowered: leaves ovate-lanceolate, entire: stem shrubby.
China. *Retz obs 5. p. 27. Calyx* roundish.
- procumbens*. Styles 3, united: calyx oblong-lanceolate, acute: petals somewhat falcate: leaves linear-lanceolate: stems herbaceous, procumbent.
North America. *Willd. 3. p. 1450. n. 32.*
- isabrum*. Flowers with 3 styles, terminal: leaves lanceolate: stem somewhat shrubby, muricate.
Arabia. *Stems* rough, with raised dots.
- osmarinifolium*. Styles 3, united: peduncles forked, terminal: calyx deciduous: leaves sessile, linear, obtuse: stem shrubby.
Carolina. *Lamarck, encycl. 4. p. 152.*

- aspalathoides*. Flowers with 3 united styles, axillary, solitary: leaves fascicled, linear, acute, striate: stem shrubby, forked.
Carolina. *Lamarck. encycl.* 4. p. 153.
- nitidum*. Flowers with 3 united styles, solitary: leaves opposite, linear, recurved: stem shrubby.
— *Lamarck. encycl.* 4. p. 153. Leaves shining.
- galioides*. Flowers with 3 united styles, panicled, terminal: leaves linear, sessile, revolute at the edge: stem somewhat shrubby.
South Carolina. *Lamarck. encycl.* 4. p. 154.
- empetrifolium*. Styles 3, divaricate: flowers corymbed, terminal: leaves 3 or 4 in a whorl, linear, revolute at the edge: stem shrubby.
Levant. *Willd.* 3. p. 1452. Calyx obtuse, glandular.
- fasciculatum*. Styles 3, united: peduncles axillary, 3 flowered: leaves in whorls, linear-lanceolate, tapering to the base, petioled: stem somewhat shrubby.
North America. *Willd.* 3. p. 1452. Calyx acute.
Leaves 4—8 in a whorl, revolute, with pellucid dots.
- repens*. Styles 3: stem cylindrical, creeping: leaves lance-linear, obtuse.
Levant; Barbary. *Flowers* corymbed.
- prolificum*. Styles 3: corymbs axillary and terminal: leaves lance-linear, obtuse: stem 2-edged, shrubby.
North America. *Leaves* often revolute.
- revolutum*. Styles 3, united: flowers terminal, solitary: stamina shorter than the corol: leaves linear-lanceolate, revolute at the base: stem shrubby.
Arabia Felix. *Vahl symb.* 1. p. 66.
- angulosum*. Styles 3, united: flowers axillary, solitary: calyx lanceolate, acute, as long as the corol: leaves oblong, acute.
Carolina. *Willd.* 3. p. 1454. Stem herbaceous, 2-edged.
- gramineum*. Flowers with 3 styles, axillary, solitary, peduncled: leaves sessile, ovate-lanceolate: stem herbaceous, square, forked above.
New South Wales. *Vahl symb.* 2. p. 86.
- japonicum*. Flowers with 3 styles, axillary, peduncled, solitary: leaves sessile, oblong, obtuse, nerved: stem herbaceous square, forked above, ascending.
Japan. *Thunb. Jap.* 295. t. 31.
- canadense*. Flowers with 3 styles, axillary, peduncled, solitary: leaves sessile, linear, tapering to the base: stem herbaceous square, forked above.
Canada. *Calyx* longer than the corol, conic, red.

- virginicum*. Flowers with 3 styles and 9 stamina, terminal: leaves elliptic, obtuse, somewhat hearted, clasping the stem: stem herbaceous, compressed.
 Pennsylvania. *Leaves* with pellucid dots.
- nudiflorum*. Styles 3, united: flowers in terminal forked panicles: leaves oblong-lanceolate, sessile: stem herbaceous, square.
 North America. *Willd.* 3. p. 1456. *Aiton Kew.* *H. lævigatum*.
- parviflorum*. Styles 3: flowers in terminal forked corymbed petals, shorter than the lanceolate calyx: leaves elliptic, obtuse, sessile: stem herbaceous, slightly 4 sided.
 Pennsylvania. *Willd.* 3. p. 1456. Leaves 5-nerved.
- corymbosum*. Flowers with 3 styles, terminal, corymbed: calyx lanceolate, acute, dotted: leaves elliptic, obtuse, sessile: stem herbaceous, round.
 Pennsylvania. *Willd.* 3. p. 1457. Calyx dotted.
- erectum*. Styles 3: leaves clasping the stem, lanceolate, acute: stem round, herbaceous.
 Japan. *Thunb. Jap* 296. Calyx glabrous.
- connatum*. Flowers with 3 styles, in terminal forked panicles: leaves deltoid, obtuse, united at the base: stem round, shrubby.
 Brasil. *Lamarck encycl* 3. p. 460.
- æthiopicum*. Flowers with 3 styles, terminal: stem herbaceous, decumbent at the base: leaves ovate, glabrous.
 The Cape. *Thunb. prodr.* 138.
- reflexum*. Styles 3: leaves sessile, lanceolate, approximate, reflected: branches downy: panicle terminal.
 Teneriffe. *Calyx* subulate: *leaves* dotted with black.
- mexicanum*. Styles 3: branches simple: leaves ovate, imbricate.
 New Granada. *Amær. acad.* 8. p. 322. t. 8. f. 2.
Corymb terminal, forked, sessile: *petals* linear.
- caracasenum*. Flowers with 3 styles, in pairs, terminal, sessile: leaves ovate, approximate, somewhat imbricate: stem branched, shrubby.
 Caraccas. *Willd.* 3. p. 1458. Leaves acute both sides.
- articulatum*. Styles 3: peduncles forked, axillary: leaves ovate-oblong, on jointed petioles: stem shrubby, square.
 Madagascar. *Lamarck. encycl.* 4. p. 161.
- quadrangulum*. Styles 3: stem quadrangular, herbaceous: leaves with pellucid dots: divisions of the calyx lanceolate, acute.
 Meadows. *Eng. bot.* t. 370. *Curt. Lond. fasc.* 4. t. 52.
- dubium*. Styles 3: stem obscurely quadrangular: leaves obtuse, without dots: divisions of the calyx elliptic, obtuse.
 Thickets. *Eng. bot.* t. 296. *All. pedem.* t. 83. f. 1.

• *perforatum* Styles 3: stem 2-edged: leaves obtuse, with pellucid dots: divisions of the calyx linear-lanceolate, acute.

Groves. *Eng. bot. t. 295. Woodv. t. 10. Curt. Lond. 1. t. 57.*

afrum. Styles 3: stem somewhat shrubby, 2-edged: leaves linear-oblong, obtuse, with pellucid dots: corymb naked, much branched: divisions of the calyx lanceolate.

Barbary. *Desfont atl. 2. p. 215. Leaves curled.*

• *humifusum* Flowers with 3 styles, terminal, somewhat cymed: stems prostrate, 2-edged, herbaceous: leaves elliptic, obtuse.

Boggy heaths. *Eng. bot. t. 1226. Curt. Lond. fasc. 3. t. 50.*

dichotomum. Flowers with 3 styles, axillary, solitary: stem round: leaves sessile, lanceolate, undulate-toothed at the base.

Sicily; Barbary. *Bocc. Mus. 2. p. 21. t. 12.*

Leaves very minute, half clasping the stem.

perfoliatum. Styles 3: stem somewhat 2-edged: leaves clasping the stem, ovate: flowers cymed, sessile.

— *Linn. diff. de Hyper. p. 5.*

barbatum. Flowers with 3 styles, panicled: stem round, herbaceous, simple: leaves oblong-lanceolate, dotted: calyx ciliate-toothed, dotted.

Austria. *Jacq. Austr. t. 259. Calyx bearded.*

C. Styles 3: calyx and bractes with glandular serratures.

ciliatum. Styles 3: calyx with glandular serratures: stem 2-edged, herbaceous, erect: leaves clasping the stem, ovate, with pellucid dots.

Levani. *Bocc. Mus. 2. p. 164. t. 127.*

• *montanum.* Flowers with 3 styles, in a terminal corymbed panicle: calyx with glandular serratures: leaves oblong, clasping the stem, without pellucid dots, spotted with black at the margin: stem erect, round.

High woods. *Eng. bot. t. 371. Fl. Dan. t. 173.*

punctatum. Flowers with 3 styles, in terminal corymbed panicles: calyx with glandular serratures; leaves oblong-lanceolate, sessile, without pellucid dots, spotted with black: stem round, spotted.

Galatia. *Willd. 3. p. 1464. Leaves covered with spots.*

glandulosum Styles 3: calyx acute, with glandular serratures: leaves oblong-lanceolate, with pellucid dots, glandular on the margin: stem shrubby.

Madeira. *Aiton Kerw. 3. p. 107. Corol with brown dots.*

• *hirsutum.* Styles 3: calyx with glandular serratures: stem erect, round, pubescent: leaves oblong, tapering to the base, with pellucid dots, hairy underneath.

Groves. *Eng. bot. t. 1156. Curt. Lond. fasc. 3. t. 49.*

- *elodes*. Flowers with 3 styles: calyx with glandular ferratures: leaves roundish-ovate, sessile, pubescent: stem cylindrical, pubescent, creeping.
Marthes. *Eng. bot. t.* 109. Panicle few-flowered.
- tomentosum*. Flowers with 3 styles: calyx with glandular ferratures, villous: leaves oblong, obtuse, half-clasping, flexuous, downy: stems ascending.
Narbon, Spain. *Racemes* terminal, bifid.
- lanuginosum* Styles 3: calyx obtuse, with glandular ferratures: leaves clasping, ovate-oblong, downy: stem cylindrical, erect.
Levant. *Lamarck. encyclop.* 4. p. 163.
- originifolium*. Styles 3: calyx linear, with glandular ferratures: leaves ovate, obtuse, sessile, downy: stem cylindrical, erect, barren branches ascending.
Armenia. *Willd.* 3. p. 1467. Calyx linear, acute.
- orientale*. Styles 3: calyx with glandular ferratures: leaves linear-lanceolate ferrulate: stem round, ascending.
Levant. *Tournef. it.* 2. t. 97. Flowers pale yellow.
- egyptiacum* Styles 3: nectaries of the petals lanceolate: stem somewhat shrubby, compressed.
Egypt. *Amæn. acad.* 8. p. 323. *tab.* 8. *fig.* 3.
- *pulchrum*. Styles 3: calyx with glandular ferratures: stem round: leaves clasping, hearted, glabrous.
Woods. *Eng. bot. t.* 1227. *Curt. Lond. fasc.* 1. *tab.* 56.
- serpyllifolium*. Styles 3: calyx with glandular ferratures: leaves obovate, obtuse, sessile: stems erect, round, shrubby.
Levant. *Moris. hist.* 2. p. 469. *sect.* 5. t. 6. f. 2.
- nummularium*. Styles 3: calyx obtuse, glandular-ferrate: leaves orbicular, somewhat hearted, petioled, glabrous: stems round ascending.
Tyrenees. *Pluk. alm.* 1. 93. f. 4. *Bocc. mus.* 2. t. 91.
- elegans*. Styles 3: calyx ovate, acute, glandular-ferrate: leaves ovate-lanceolate, pointed, somewhat hearted, clasping: stem roundish, panicled, erect.
Siberia. *Willd.* 3. p. 1469. Leaves glaucous beneath.
- linearifolium*. Styles 3: calyx glandular-ferrate: stem round, erect: leaves linear, obtuse, glabrous.
Spain. *Vahl. symb.* 1. p. 65. Leaves sessile.
- hyssopifolium*. Styles 3: calyx obtuse, glandular-toothed: panicle pyramidal, longer than the round stem: leaves linear, obtuse, sessile, glaucous.
Iberia. *Vill. Delph.* 3. p. 505. *tab.* 45?

1266 POLYADELPHIA. POLYAND. 1332. Ascyrum.

ericoides. Styles 3: calyx oblong, acute, glandular-ferrate: leaves linear, acute, sessile, in fours, imbricate: stems somewhat shrubby.

Spain, Portugal. *Cavan. ic. 2. p. 20. tab. 122.*

Coris: Styles 3: calyx linear, obtuse, glandular-ferrate: leaves linear, revolute at the edge, in fours: stem shrubby.

South of Europe. Levant. *Curt. Magaz. t. 178.*

D. Flowers with two styles.

mutilum. Styles 2: leaves ovate, sessile, appressed.

Virginia, Canada. *Gronov. Virg. 112.*

setosum. Styles 2: leaves linear.

Virginia. *Gronov. Virg. 88.*

verticillatum. Styles —: stem herbaceous: leaves in fours,

The Cape. *Thunb. prodr. 137.*

1432. ASCYRUM. Calyx 4-leaved: petals 4: filaments numerous, disposed in 4 sets.

Crux andrea. Leaves ovate: stem round: panicle forked.

Virginia. *Flowers small, yellow.*

multicaule. Leaves oblong: branches 2-edged: corymb terminal.

North America. *Leaves obtuse.*

hypericoides. Leaves oblong: branches 2-edged: flowers solitary, terminal.

Jamaica, Virginia. *Plum. gen. 51. tab. 152. f. 1.*

stans. Leaves oblong: branches 2-edged: peduncles axillary.

North America. *Willd. 3. p. 1473. Leaves obtuse.*

villosum. Leaves oblong, pubescent, appressed: stem round, stiff: flowers terminal.

Virginia. *Pluk. alm. t. 245. f. 6. Hypericum.*

CLASS XIX. SYNGENESIA.

Antheræ united into a cylinder : flowers compound.

ORDER I. Polygamia æqualis.

All the florets hermaphrodite and fertile.

A. Semifloscular : all the florets ligulate.

1462. SCOLYMUS. *Receptacle chaffy : down 0 : calyx imbricate and spinous.*
1461. CICHORIUM. *Receptacle somewhat chaffy : seeds surrounded with numerous short teeth : calyx invested with scales.*
1460. CATANANCHE. *Receptacle chaffy : seeds with 5 awned teeth : calyx imbricate, scacious.*
1454. SERIOLA. *Receptacle chaffy : down mostly simple : calyx simple, many-leaved.*
1455. HYPOCHÆRIS. *Receptacle chaffy : down somewhat feathery : calyx imbricate.*
1433. GEROPOGON. *Receptacle somewhat chaffy : down of the disk feathery, of the margin 5-awned : calyx many-leaved, simple or scaly.*
1450. ROTHIA. *Receptacle villous, with the margin chaffy : down of the disk simple and sessile, of the ray 0 : calyx many-leaved, equal.*
1449. ADRYALA. *Receptacle villous : down simple, sessile : calyx many-leaved, equal.*
1459. TRIPTILION. *Receptacle villous : down awned, the awns hairy at top : calyx imbricate.*
1434. TRAGOPOGON. *Receptacle naked : down feathery, on a pedicle : calyx simple, many leaves.*
1435. ARNOPOGON. *Receptacle naked : down feathery, on a pedicle : calyx 1-leaved, 8-parted.*
1447. HELMINTIA. *Receptacle naked : down feathery, on a pedicle : seeds transversely striate : calyx double, the outer 5-leaved and as long as the inner.*
1444. PICRIS. *Receptacle naked : down feathery, on a pedicle : seeds transversely striate : calyx double, the outer consisting of short scales.*
1442. APARGIA. *Receptacle naked : down feathery, sessile : calyx imbricate.*

1436. SCORZONERA. *Receptacle* naked : *down* feathery, on a pedicle.
1441. LEONTODON. *Receptacle* naked : *down* simple, on a pedicle : *calyx* imbricate, with flaccid scales.
1446. CREPIS. *Receptacle* naked, roughish : *down* simple : *calyx* invested with differently shaped deciduous scales.
1439. CHONDRILLA. *Receptacle* naked : *down* simple, on a pedicle : *calyx* invested with scales, inclosing many florets.
1440. PRENANTHES. *Receptacle* naked : *down* simple : *calyx* invested with scales, inclosing about 5 florets.
1438. LACTUCA. *Receptacle* naked : *down* simple, on a pedicle : *calyx* imbricate, cylindrical, scarious at the margin.
1445. HIERACIUM. *Receptacle* mostly naked, dotted : *down* simple, sessile : *calyx* imbricate, ovate.
1437. SONCHUS. *Receptacle* naked : *down* simple, sessile : *calyx* imbricate, swelling at the base.
1457. ZACINTHA. *Receptacle* naked : *down* very short, somewhat feathery : *seeds* of the margin incurved, of the disk straight : *calyx* invested with membranaceous scales.
1456. LAPSANA. *Receptacle* naked : *down* 0 : *seeds* straight : *calyx* invested with scales, the inner-leaves equal and channelled.
1458. RHAGADIOLUS. *Receptacle* naked : *down* 0 : *seeds* incurved spreading : *calyx* invested with scales.
1453. KRIGIA. *Receptacle* naked : *seeds* surrounded with a 5-awned membrane alternating with as many bristles : *calyx* many-leaved, simple.
1451. HYOSERIS. *Receptacle* naked : *down* double ; the outer capillary, inner of chaffy awns : *calyx* invested with scales.
1452. HEDYPNOIS. *Receptacle* naked : *down* of the disk double ; the outer of many obsolete bristles, inner of 5 chaffy leaves ; of the margin a denticulate membrane : *calyx* invested with scales.
1443. THRINCIA. *Receptacle* cellular : *down* of the margin a many-toothed membrane, of the centre feathery and pedicelled : *calyx* 8-leaved.
1448. TOPLIS. *Receptacle* cellular : *down* of the margin a toothed membrane, of the centre 2 or 4 awns : *calyx* invested with long subulate scales.

B. *Flowers in heads.*

1472. *ATRACTYLIS.* *Receptacle* chaffy : *down* feathery : *corol* radiate : *calyx* imbricate.
1473. *ACARNA.* *Receptacle* chaffy : *down* feathery : *corol* floscular : *calyx* imbricate, double.
1466. *SERRATULA.* *Receptacle* chaffy : *down* feathery : *corol* floscucular : *calyx* imbricate, cylindrical.
1479. *CARTHAMUS.* *Receptacle* with chaffy bristles : *down* simple and chaffy or o : *corol* floscular : *calyx* imbricate, with spinous teeth on the scales.
1471. *CARLINA.* *Receptacle* with chaffy bristles : *down* feathery and chaffy : *corol* floscular : *calyx* imbricate, radiate.
1463. *ARCTIUM.* *Receptacle* chaffy : *down* bristly and chaffy : *corol* floscular : *calyx* globular, with inflected hooks on the top of the scales.
1493. *PTERONIA.* *Receptacle* with many-parted chaff : *down* somewhat feathery : *corol* floscular : *calyx* imbricate, with the scales carinate.
1476. *STOBÆA.* *Receptacle* bristly, pitted : *down* chaffy : *corol* floscular : *calyx* imbricate, with spinous teeth on the scales.
1495. *LACHNOSPERMUM.* *Receptacle* villous : *seeds* involved in the down : *calyx* cylindrical, imbricate.
1477. *BARNADESIA.* *Receptacle* villous : *down* of the disk bristly, of the margin feathery : *corol* radiate : *calyx* imbricate, somewhat swelling at the base.
1470. *CYNARA.* *Receptacle* bristly : *down* fessile, feathered : *calyx* imbricate, with fleshy carinate scales.
1478. *JOHANNIA.* *Receptacle* villous : *down* feathery : *corol* floscular : *calyx* imbricate, radiate.
1468. *CNICUS.* *Receptacle* villous : *down* feathery : *corol* floscular : *calyx* imbricate, swelling.
1467. *CARDUUS.* *Receptacle* villous : *down* capillary : *corol* floscular : *calyx* imbricate, swelling.
1474. *ONOSERIS.* *Receptacle* nearly naked : *down* simple : *corol* radiate : *calyx* imbricate.
1475. *STOKESIA.* *Receptacle* naked : *down* of 4 bristles : *corol* floscular, radiate : *calyx* imbricate.
1465. *LIATRIS.* *Receptacle* naked : *down* feathery coloured : *corol* floscular : *calyx* oblong, imbricate.
1464. *VERNONIA.* *Receptacle* naked : *down* double ; the outer chaffy, inner capillary : *corol* floscular : *calyx* ovate, imbricate.

1469. ONOPORDON. *Receptacle pitted: down capillary: corol floscular: calyx imbricate, roundish.*
- * *Centaurea Rbaponica, nigra.*
C. *Florets tubular.*
1494. STAEHELINA. *Receptacle chaffy: down feathery: antheræ tailed at the base: calyx hemisphærical, imbricate.*
1496. HAYNEA. *Receptacle chaffy, fleshy: down simple: calyx ovate, imbricate.*
1501. CALEA. *Receptacle chaffy: down simple: calyx imbricate.*
1481. BIDENS. *Receptacle chaffy, flat: seeds square: down awned: calyx nearly equal, invested with scales.*
1480. SPILANTHES. *Receptacle chaffy, conic: down awned: calyx nearly equal.*
1505. ATHANASIA. *Receptacle chaffy: down chaffy: calyx imbricate.*
1503. SANTOLINA. *Receptacle chaffy: down 0: calyx imbricate hemisphærical.*
1502. CAESULIA. *Receptacle chaffy: seeds involved in the chaff: down 0: calyx 3-leaved.*
1500. TARCHONAN.
THUS. *Receptacle villous: seeds involved in down: calyx 1-leaved, many-cleft.*
1489. KUHNIA. *Receptacle naked: down feathery: calyx imbricate, cylindrical.*
1488. EUPATORIUM. *Receptacle naked: down simple or rough: calyx imbricate, cylindrical: style longer than the corol, cloven half way down.*
1499. CHRYSOCOMA. *Receptacle naked: down simple: calyx imbricate, hemispherical.*
1486. MIKANIA. *Receptacle naked: down simple: calyx 4 or 6-leaved, 4 or 6-flowered.*
1484. KLEINIA. *Receptacle naked: down simple: calyx simple.*
1483. CACALIA. *Receptacle naked: down simple: calyx invested with scales.*
1482. LAVENIA. *Receptacle naked: down 3-awned, glandular at the top: calyx ovate, somewhat imbricate.*
1490. AGERATUM. *Receptacle naked: down chaffy: calyx cylindrical, of a double row of leaves.*
1491. STEVIA. *Receptacle naked: down an awned chaff: calyx cylindrical, of a single row of leaves.*
1492. HYMENOPAP-
PUS. *Receptacle naked: down many-leaved, chaffy: calyx many-leaved, spreading.*

1498. **CEPHALOPHORA** *Receptacle* naked, hemisphærical: *down* chaffy many-leaved: *calyx* many-leaved, reflected.
1506. **PENTZIA.** *Receptacle* naked: *seeds* crowned with a membranaceous margin: *calyx* imbricate, hemisphærical.
1485. **ETHULIA.** *Receptacle* naked: *seeds* crowned with a membranaceous margin: *calyx* equal
1487. **PIQUETRA.** *Receptacle* naked: *down* 0: *calyx* 4-leaved.
1504. **BALSAMITA.** *Receptacle* naked: *down* 0: *calyx* imbricate.

ORDER II. POLYGAMIA SUPERFLUA.

Florets of the disk hermaphrodite, of the margin female: all fertile.

A. *All the florets tubular,*

1508. **ARTEMISIA.** *Receptacle* naked or villous: *down* 0: *florets* of the margin subulate and very entire.
1513. **CARPESIMUM.** *Receptacle* naked: *down* 0: *florets* of the margin 5-cleft.
1507. **TANACETUM.** *Receptacle* naked: *seeds* crowned with a margin: *florets* of the margin 3-cleft or 0.
1551. **COTULA.** *Receptacle* naked or villous: *seeds* crowned with a margin: *florets* of the centre 4-cleft.
1514. **BACCHARIS.** *Receptacle* naked: *down* simple: *female florets* mixed with the hermaphrodites.
1515. **CONYZA.** *Receptacle* naked: *down* simple and rough: *florets* of the margin 3-cleft.
1509. **GNAPHALIUM.** *Receptacle* naked: *down* feathery or rough: *calyx* with scarious coloured scales: *florets* of the margin subulate.
1511. **ELICHRYSUM.** *Receptacle* naked: *down* simple or feathery: *calyx* imbricate, radiate, with the ray coloured.
1510. **XERANTHEMUM** *Receptacle* chaffy: *down* chaffy and bristly: *calyx* imbricate, radiate, with the ray flattened and coloured.
1552. **ANACYCLUS.** *Receptacle* chaffy: *seeds* crowned with an emarginate membranaceous margin, those of the margin membranaceous at the sides.

B. *Semifloscular and somewhat 2-lipped.*

1512. **DENEKIA.** *Receptacle* naked: *down* 0: *calyx* imbricate.
1531. **PERDICIMUM.** *Receptacle* naked: *down* simple: *florets* 3-cleft, the outer larger and 3-lobed.

C. Florets radiate.

1516. *MADIA*. Receptacle naked: down 0: calyx equal, consisting of a double row of leaves.
1533. *BELLIS*. Receptacle naked: down 0: calyx consisting of a single row of equal scales.
1548. *MATRICARIA*. Receptacle naked, cylindrico-conic: down 0: calyx imbricate, with the scales scarious at the margin.
1550. *LIDBECKIA*. Receptacle naked: down 0: calyx many-parted.
1546. *CHRYSANTHEMUM*. Receptacle naked: down 0: calyx imbricate, with the scales dilated and membranaceous at the margin.
1547. *PYRETHRUM*. Receptacle naked; seeds crowned with a margin: calyx hemispherical, imbricate, with the scales scarious at the margin and rather acute.
1561. *COLUMMELLA*. Receptacle naked: seeds crowned with a toothed margin: calyx cylindrical: florets of the margin undivided.
1528. *DORONICUM*. Receptacle naked: down simple: florets of the margin without down.
1527. *ARNICA*. Receptacle naked: down simple: stamina of the marginal florets castrate.
1525. *INULA*. Receptacle naked: down simple: florets of the margin very numerous and linear: antheræ with 2 bristles at the base.
1517. *ERIGERON*. Receptacle naked: down simple: florets of the margin very numerous, linear, and narrow.
1521. *SOLIDAGO*. Receptacle naked, pitted: down simple: florets of the margin 5 or 6 remote.
1524. *CINERIA*. Receptacle naked: down simple: calyx simple, many-leaved, equal.
1519. *SENECIO*. Receptacle naked: down simple: calyx invested with scales, many-leaved, equal; its scales dead at their tips.
1518. *TUSSILAGO*. Receptacle naked: down simple: calyx simple, many-leaved, equal, somewhat membranaceous, swelling at the base.
1520. *ASTER*. Receptacle naked: down simple: calyx imbricate with the lower scales spreading: florets of the margin more than 10.
1537. *BOEBERA*. Receptacle naked: down simple: calyx double; the outer many-leaved, inner 8-leaved.

1522. *MUTISIA*. *Receptacle* naked: *down* feathery: *calyx* cylindrical, imbricate: *florets* of the centre 3-cleft.
1523. *BRACHYGLO-TIS*. *Receptacle* naked: *down* feathery: *calyx* cylindrical, simple, equal: *florets* of the centre 5-cleft.
1534. *BELLIUM*. *Receptacle* naked: *down* awned and 8-leaved: *calyx* simple.
1556. *ACTINEA*. *Receptacle* naked: *down* chaffy, many-leaved: *calyx* simple.
1538. *TAGETES*. *Receptacle* naked: *down* awned: *calyx* 1-leaved: *florets* of the ray 5.
1532. *HELENIUM*. *Receptacle* naked, except the calcine chaffs in the margin: *down* 5-awned: *calyx* many-parted: *florets* with 3-cleft rays.
1541. *PECTIS*. *Receptacle* naked: *down* awned: *calyx* 5-leaved: ray 5-flowered.
1540. *SCHKUHRIA*. *Receptacle* naked: *down* 5-leaved, chaffy: *calyx* 5-leaved: *florets* of the ray solitary.
1539. *HETEROSPERMUM*. *Receptacle* naked: *seeds* of the margin naked and winged, those of the centre 2-awned: *calyx* double.
1549. *BOLTONIA*. *Receptacle* with honey-comb like hollows: *down* of obscurely toothed awns.
1542. *LEYSERA*. *Receptacle* naked, except the calicine chaffs in the margin: *down* feathery: *calyx* scarious.
1563. *SIEGESBECKIA*. *Receptacle* chaffy: *down* 0: *florets* of the centre 5-cleft.
1553. *ANTHEMIS*. *Receptacle* chaffy: *seeds* crowned with a slight margin: *calyx* hemispherical: *florets* of the ray more than 5, oblong.
1555. *ACHILLEA*. *Receptacle* chaffy: *down* 0: *calyx* 0: *florets* of the ray 5-10, inversely heart shaped and roundish.
1529. *TETRAGONOTHECA*. *Receptacle* chaffy: *down* 0: *calyx* 4-sided, 4-parted.
1530. *XIMENESIA*. *Receptacle* chaffy: *down* 0: *seeds* of the centre winged, those of the margin notched: *calyx* nearly equal.
1564. *PHAETHUSA*. *Receptacle* naked: *down* 0: *seeds* bristly: *calyx* imbricate: *florets* of the ray 1-3.
1635. *GEORGINA*. *Receptacle* chaffy: *down* 0: *calyx* double.
1544. *RELHANIA*. *Receptacle* chaffy: *down* membranaceous, short: *calyx* imbricate, scarious.

1567. PASCALIA. *Receptacle chaffy: seeds crowned with a tooth-
ed margin: calyx imbricate.*
1568. BUPHTHALMUM *Receptacle chaffy: seeds crowned with a
margin, those of the ray compressed,
sharp-edged.*
1526. RHANTERIUM. *Receptacle chaffy: down of 4 or 6-bristles
which are feathery at top: calyx cylindri-
cal imbricate: seeds of the ray naked.*
1554. SANVITALIA. *Receptacle naked: seeds of the ray 3-awned,
of the centre naked: calyx imbricate.*
1559. AMELLUS. *Receptacle chaffy: down simple: calyx im-
bricate.*
1557. TRIDAX. *Receptacle chaffy: down simple: florets of
the ray 3-parted.*
1543. ROSENIA. *Receptacle chaffy: down capillary and chaffy:
calyx imbricate, scarious.*
1565. VERBESINA. *Receptacle chaffy: down awned: florets of
the ray about 5.*
1536. SCHLECHTEN-
DALIA. *Receptacle chaffy: down of 5 erect awns:
calyx double: florets of the centre 6 or
8-cleft,*
1566. GALINSOGEA. *Receptacle chaffy: down many-leaved, chaffy:
calyx imbricate.*
1545. ZINNIA. *Receptacle chaffy: down awned: ray 5-
flowered, permanent: calyx imbricate.*
1558. BALBISIA. *Receptacle chaffy: down feathery, sessile:
calyx 8-leaved.*
1560. STARKEA. *Receptacle rough with hairs: down simple,
sessile: calyx imbricate.*

ORDER III. POLYGAMIA FRUSTRANEA.

*Florets of the centre hermaphrodite, those of the ray neuter and
barren.*

1581. GORTERIA. *Receptacle naked: down woolly: florets of
the ray ligulate: calyx 1-leaved, covered
with scales*
1584. CENTAUREA. *Receptacle bristly: down simple: florets of
the ray funnel-form, irregular, longer
than those of the centre, or o.*
1583. ZOEGERA. *Receptacle bristly: down bristle-like: florets
of the ray ligulate.*
1580. MUSSINEA. *Receptacle bristly: down simple: calyx 1-
leaved, cylindrical, toothed.*
1579. DIDELTA. *Receptacle bristly: down chaffy: calyx double.*
1572. RUDBECKIA. *Receptacle chaffy: seeds crowned with a
margin: calyx in a double row.*

1576. LAPEIROUSIA. *Receptacle* rough with small protuberances :
down o : *florets* viscid.
1582. BERCKHEYA. *Receptacle* chaffy : down chaffy : *calyx* im-
bricate.
1571. TITHONIA. *Receptacle* chaffy : down chaffy : *calyx* many-
leaved, cylindrical.
1570. GALARDIA. *Receptacle* chaffy : down chaffy : *calyx* many-
leaved, flat.
1574. COREOPSIS. *Receptacle* chaffy : down awned : *calyx* many-
leaved, invested at the base with spread-
ing rays.
1573. COSMEA. *Receptacle* chaffy : down awned : *calyx* 1-
leaved, invested with scales.
1569. HELIANTHUS. *Receptacle* chaffy : down awned : *calyx* im-
bricate, with the scales spreading every
way.
1575. OSMITES. *Receptacle* chaffy : down obsolete : *calyx* im-
bricate, scarious.
1578. SCLEROCARPUS. *Receptacle* chaffy : down o : *calyx* double.
1577. PALLASIA. *Receptacle* chaffy : down o : *calyx* simple, im-
bricate.

ORDER IV. POLYGAMIA NECESSARIA.

*Florets of the centre hermaphrodite and barren, those of the mar-
gin female and fertile.*

1586. MILLERIA. *Receptacle* naked : down o : *calyx* 1-leaved,
3-parted : *florets* of the ray mostly solitary.
1587. BALTIMORA. *Receptacle* naked : down o : *calyx* cylindrical :
ray 5-flowered.
1599. OTHONNA. *Receptacle* naked : down simple : *calyx* 1-
leaved.
1601. PSIADIA. *Receptacle* naked : down simple : *calyx* imbricate.
1594. UNXIA. *Receptacle* naked : down o : *calyx* 5-leaved.
1600. HIPPIA. *Receptacle* naked : down o : *seeds* glabrous,
compressed and edged with a margin :
ray obsolete.
1598. OSTEOSPERMUM. *Receptacle* naked : down o : *seeds* globular,
bony.
1595. CALENDULA. *Receptacle* naked : down o : *seeds* membrana-
ceous.
1596. ARCTOTIS. *Receptacle* somewhat hairy : down 5-leaved :
seeds downy.
1602. ERIOCEPHALUS. *Receptacle* villous : down o : *florets* of the
ray 5.

1604. IVA. *Receptacle hairy : down 0 : calyx 3-leaved.*
 1605. FILAGO. *Receptacle chaffy : down 0 : florets of the margin between the scales of the calyx.*
 1606. MICROPUS. *Receptacle chaffy : down 0 : florets of the margin sheathed in the scales of the calyx.*
 1589. WEDELIA. *Receptacle chaffy : seeds crowned with 4 or 5 teeth : calyx simple, 4 or 5 leaved.*
 1585. ACICARPHA. *Receptacle chaffy : down 0 : calyx 5-parted.*
 1590. POLYMNIA. *Receptacle chaffy : down 0 : calyx double, the outer 5-leaved.*
 1593. MELAMPODIUM *Receptacle chaffy : seeds with a heart-shaped involute converging crown : calyx 5-leaved.*
 1603. PARTHENIUM. *Receptacle chaffy : seeds naked : calyx 5-leaved.*
 1597. ARCTOTHECA. *Receptacle chaffy : down 0 : calyx imbricate.*
 1591. TRIxis. *Receptacle chaffy : down 0 : seeds villous at top : florets of the ray 3-cleft : calyx imbricate.*
 1588. SILPHIUM. *Receptacle chaffy : down 2-awned : calyx spreading every way.*
 1592. CHRYSOGONUM. *Receptacle chaffy : down 3-awned : seeds invested with their proper calyces.*

ORDER V. POLYGAMIA SEGREGATA.

Florets separated by a proper perianth containing one or more florets, and placed within a common calyx.

1621. TETRANTHUS. *Perianth 1-flowered, oblique : down 0 : syngenesia æqualis.*
 1618. ROLANDRA. *Perianth 1-flowered, 2-valved : down 0 : syngenesia æqualis.*
 1612. NAUENBURGIA. *Perianth 1-flowered, 2-valved : down 0 : syngenesia superflua.*
 1611. LAXMANNIA. *Perianth 1-flowered, 2-awned ; down 0 : florets 4-cleft ; syngenesia æqualis.*
 1620. CALYCERA. *Perianth 1-flowered, 5-rayed : down 0 ; syngenesia frustranea.*
 1613. NOCCÆA. *Perianth 1-flowered, 5-toothed receptacle pitted.*
 1619. BOOPIS. *Perianth 1-flowered, many-toothed ; receptacle chaffy.*
 1623. STOEBEA. *Perianth 1-flowered ; down feathery ; syngenesia æqualis.*
 1609. OEDERA. *Receptacle chaffy ; down chaffy ; perianth containing both tubular and ligulate florets.*

1617. CHAMÆLEON. *Perianth* 1-flowered, many-leaved; *receptacle* naked; syngenesia æqualis.
1616. ECHINOPS. *Perianth* 1-flowered; *down* pubescent; syngenesia æqualis.
1607. ELEPHANTOPUS *Perianth* 4-flowered; *down* bristle-like; *florets* tongue-shaped; syngenesia æqualis.
1615. NASSAUVIA. *Perianth* 4-flowered; *down* of 4 or 5 bristles; *florets* tubular; syngenesia æqualis.
1608. JUNGIA. *Perianth* many-flowered; *down* feathery; syngenesia æqualis.
1622. GUNDELIA. *Receptacle* 5-flowered; *down* 0; syngenesia frustranea.
1615. SPHÆRANTHUS. *Receptacle* many-flowered; *down* 0; syngenesia necessaria.
1610. CRASPEDIA. *Receptacle* many-flowered; *down* feathery; syngenesia æqualis.

SYNGENESIA ÆQUALIS.

1433. GEROPOGON. *Receptacle* with bristle-like chaff, or naked: *calyx* many-leaved, simple or invested with scales: *seeds* of the disk with a feathery down, of the ray 5-awned. *Old man's beard.*

glaber. Leaves glabrous: receptacle glabrous.

Italy. *Curt. Magaz. tab.* 479. *Jacq. Hort. tab.* 33.

hirsutus. Leaves hairy.

Italy. *Col. ecphr.* 1. *tab.* 231. *Tragopogon.*

calyculatus. Calyx invested with scales.

— *Jacq. hort. tab.* 106. Flowers yellow.

1434. TRAGOPOGON. *Receptacle* naked: *calyx* simple, many-leaved: *down* feathered, on a pedicel. *Goat's-beard.*

A. *With a stem.*

* *pratensis.* Calyx about as long as the corol: leaves entire, carinate, pointed, dilated at the base: peduncle cylindrical.

Meadows. *Engl. Bot. tab.* 434. *Flor. Dan.* 1. 906.

mutabilis. Calyx 8-leaved, as long the corol: leaves entire, stiff, lanceolate and pointed.

Siberia. *Jacq. ic. rar.* 1. 157. Flowers whitish-yellow.

undulatus. Calyx as long as the corol: leaves entire, nearly linear; those of the stem much waved.

Tauria. *Jacq. ic. rar.* 1. 38. Flowers whitish-yellow.

orientalis. Calyx shorter than the corol: leaves entire, slightly undulate.

Astracan. *Camer. epit.* 312. *fig.*

Ray of the corol not striate beneath. *antheræ* yellow.

canus. Calyx 8-leaved, about as long as the corol, downy: peduncles downy: leaves linear, stiff.

Hungary. *Waldst. et. Kitaib, pl. rar. Hung.*

Leaves curved, not undulate: corol pale yellow.

major. Calyx longer than the corol: leaves entire, stiff: peduncles swelling at top: florets rounded at the tip.

Germany. *Jacq. Austr.* 1. *tab.* 29. Flowers yellow.

* *porrifolius* Calyx half as long again as the corol: leaves entire, stiff: peduncles swelling at top: florets very narrow and truncate.

Meadows. *Engl. Bot. tab.* 638. Flowers purple.

angustifolius Calyx 8-leaved, longer than the corol: leaves entire, stiff, glabrous.

Italy. *Willd. sp. pl.* 1494. Stem four inches high.

SYNGENES. ÆQUAL. 1435. Arnopogon. 1435. Scorzonera. 1279

crucifolius. Calyx 5-leaved, longer than the corol: leaves entire; the radical ones and peduncles villous at the base.

Italy. *Col. cephr. t. 230.* Flowers violet.

villofus. Calyx half as long again as the corol: stem and leaves villous.

Spain, Siberia. *Plant pubescent: calyx 9 leaved.*

B. *Stemless: scapes radical.*

Dandelion. Leaves sword-shaped, entire, glabrous, smooth: scapes radical.

Virginia. *Scapes pubescent at top.*

lanatus. Leaves sword-shaped, waved, villous: scapes radical.

Palestine. *Scape with a small leaf in the middle.*

1435. ARNOPOGON. *Receptacle naked: down feathery, on a pedicel; calyx 1-leaved, 8-parted, turbinate.*

Dalecham-pii. Calyx pubescent, unarmed: leaves runcinate and toothed.

Spain. *Barr. rar. t. 209.* Leaves villous.

picroides. Calyx prickly: leaves runcinate, denticulate, those of the stem dilated at the base.

Crete, France. *Root-leaves obovate.*

asper. Calyx prickly: leaves entire; those of the stem oblong, tapering to the base.

Montpellier. *Tragopogon asperum. Sp. pl. 1111,*

capensis. Calyx prickly, 8-leaved, deeply divided; leaves runcinate and toothed.

The Cape. *Jacq. ic. rar. 3. t. 577.* Calyx carinate.

1436. SCORZONERA. *Receptacle naked: down feathery, mostly sessile: calyx imbricate with the scales scarious at the edge.*

Viper's-grass.

somentosa. Leaves ovate, nerved, downy, very entire, sessile.

America. *Root-leaves very entire, clasping.*

Austriaca. Stem nearly naked, 1-flowered, glabrous: scales of the calyx glabrous: leaves linear-lanceolate.

Austria. *Jacq. Ausir. t. 36.* Calyx scales pointed.

Rumilis. Stem nearly naked, 1 or 2-flowered, woolly: scales of the calyx woolly: leaves oblong-lanceolate, nerved, flat.

South of Europe. *Stem sometimes many-flowered.*

hispanica. Stem branched: leaves clasping the stem, lanceolate, entire, slightly ferrulate at the base.

Spain, Hungary. *Blackw. tab. 406.*

- glastifolia*. Stem 1 or 2-flowered, leafy: leaves linear-lanceolate, pointed, glabrous, nerved, flat.
Germany, Bohemia. Stem often many-flowered.
- caricifolia*. Stem 1 or 2-flowered, leafy, ascending: leaves lance-ensiform, glabrous, nerved, flat: calyx shorter than the ray.
Siberia. *Pall. it. 3. app. n. 131. tab. I. i. f. 1.*
- parviflora*. Stem branched, leafy at the base: leaves lance-ensiform, glabrous, nerved, flat: calyx longer than the ray.
Austria. *Jacq. Austr. tab. 105.* Leaves entire.
- undulata*. Leaves linear-lanceolate, tapering, downy, undulate: stem slightly branched.
Barbary. *Vahl symp. 2. p. 86.* Corol pale red.
- graminifolia*. Leaves linear-ensiform, pointed, rigid, nerved, carinate: calyx villous, leafy at the base: stem slightly branched.
Portugal, Siberia. *Jacq. obs. 4. p. 13. tab. 100.*
Stem striate, erect, leafy: flowers small, pale yellow.
- suberosa*. Stem 1-flowered, leafy: leaves linear, downy underneath: root tuberous.
Siberia. *Pall. it. 3. app. n. 113. tab. V. fig. 3.*
- pusilla*. Leaves filiform, rolling upwards at the tip: stem branched.
Siberia. *Pall. it. 2. app. n. 122. tab. L.*
- rosea*. Leaves lance-linear, flat; those of the stem carinate and linear: stem 1-flowered.
Germany, Hungary. *Scop. Carn. tab. 46.* Sc. purpurea.
Root-leaves flat, hairy at the base.
- purpurea*. Leaves linear-subulate, channelled and 3-sided: stem branched.
Austria, Siberia. *Jacq. Austr. p. 35. Gmel. Sib. 2. t. 2.*
Corol bluish-flesh-colour: anthera white.
- angustifolia*. Leaves subulate, entire: peduncle thickened towards the top: stem villous at the base.
Austria, Siberia. *Gmel. Sib. 2. tab. 1.*
Flower large, yellow, purplish underneath.
- pinifolia*. Leaves subulate, acute: calyx woolly. stem 1-flowered, downy.
Spain, South of France. *Barr. ic. 496.*
- hirsuta*. Leaves linear, hairy: stem 1-flowered, hairy.
Levant. *Col. ecphr. 1. tab. 233.*
Leaves channelled: seeds hairy, white, downy.
- villosa*. Leaves linear, carinate, villous: stem branched.
Carniola. *Scop. Carn. t. 46.* Plant hairy, branched.

- eriosperma*. Leaves linear, pointed, carinate, woolly at the base: stem branched: calyx hoary: seeds downy.
Near the Caspian Sea. *Marsch. Casp.* 117. n. 28.
- cretica*. Leaves linear, flat, slightly ciliate: stem branched at the base: seeds down.
Crete. *Tournef. cor.* 36. Leaves flat: seeds white.
- capensis*. Leaves linear-lanceolate, glabrous: stem paniced.
The Cape. *Thunb. prodr.* 141.
- chondril-
loides*. Leaves linear, obtuse, slightly toothed: stem much branched, peduncles scaly.
Spain. *Willd.* 3. p. 1505. Root-leaves runcinate.
- calictrapi-
folia*. Lower-leaves lyrate, with oblong mucronate segments; the upper-ones pinnatifid.
Africa. *Buxb. cent.* 2. t. 22. *Barr. ic.* 1800.
- laciniata*. Lower-leaves pinnatifid, linear; upper-ones linear: calyx glabrous, the lower scales spreading and mucronate.
Germany, Austria, France. *Jacq. Austr. tab.* 356.
- angularis*. Lower-leaves lanceolate, decursively pinnatifid; upper-ones linear-lanceolate: calyx 3-angled, before flowering.
South of Europe. *Willd.* 3. p. 1506. Calyx hoary.
- pumila*. Leaves pinnatifid, acute, glabrous: scape scaly, glabrous, 1-flowered.
Spain. *Cavan. ic. i. tab.* 121. f. 2.
- coronopifolia*. Leaves pinnatifid, toothed, obtuse, pubescent: scape nearly leafless, naked, downy, 1-flowered.
Barbary. *Desfont. Atl.* 2. t. 212. *Vabl. Symb.* 2. t. 44.
- orientalis*. Leaves sinuate, denticulate, acute: stems 1 or 2-flowered.
The East. Leaves deeply scalloped, glabrous.
- asperima*. Leaves runcinate, bristly: stem 1 or 2-flowered, somewhat leafy, bristly.
Galatia. *Willd.* 3. p. 1508. Bristles forked.
- taraxacifo-
lia*. Leaves runcinate, obtuse, glabrous: scape leafless, branched: peduncles swelling.
Bohemia. *Jacq. ic. rar.* 1. t. 106. Leaves decurrent.
- acaulis*. Leaves runcinate, glabrous: scape naked, 1-flowered.
Silesia. *Willd.* 3. p. 1508. Leaves lanceolate, pointed.
- elongata*. Leaves downy underneath; the radical ones lyrate, those of the stem pinnate: stems slightly branched, leafy.
Greece. *Tourn. Cor.* 36. it. 1. tab. 223. Flowers yellow.

1437. SONCHUS. *Receptacle* naked: *calyx* imbricate, swelling at the base: *down* simple, sessile.

Sow-thistle.

resedifolius. Reduncles 1-flowered, terminal, scaly: lower-leaves tooth-pinnatifid; scales of the calyx white at the tips.

Scorzonera resedifolia. *Sp. pl.* 1113. *Willd.* 3. p. 1505.

Spain. *Bocc. sic.* 13. tab. 7. fig. A. C. A.

Plant glabrous *branches* wand-like: *leaves* narrow.

maritimus. Peduncles 1 or 2-flowered, terminal, naked: leaves lanceolate, clasping the stem, undivided, sharply toothed backwards.

South of Europe. *Cavan. ic.* 1. t. 51. *Allion. Ped.* t. 16. f. 2.

crassifolius. Peduncles somewhat umbelled, scaly: leaves lanceolate, clasping the stem, with pointed teeth.

Spain. *Willd.* 3. p. 1509. Leaves thick, glaucous,

quercifolius. Peduncles mostly forked, with a few scales: scales of the calyx appressed: leaves oblong, sinuate, toothed: stem shrubby.

Barbary. *Desfont. Atl.* 2. t. 213. Flowers yellow.

fruticosus. Peduncles branched, with a few scales: calyx spreading every way: leaves lanceolate, runcinate: stem shrubby, Madeira. *Jacq. ic. rar.* 1. t. 161. *L'Herit. stirp.* t. 81.

Leaves thick, deeply cut: *flowers* yellow.

acidus. Peduncles branched, naked: scales of the calyx spreading: leaves pinnatifid, with oblong-lanceolate pointed entire divisions: stem shrubby.

Morocco. *Willd.* 3. p. 1511. Leaves petioled, glabrous.

pinnatus. Peduncles naked: calyx smooth: leaves pinnate, with linear-lanceolate slightly toothed divisions.

Madeira. *Aiton. Kew.* 3. p. 116.

radicatus. Peduncles naked, glabrous: calyx glabrous: stem nearly naked: root-leaves lyrate, smooth on both sides, with triangular ovate lobes.

Madeira. *Aiton. Kew.* 3. p. 116.

taraxacifolius. Peduncles scaly: flowers paniced: leaves runcinate, with callous teeth, tapering to the base.

Guinea. *Willd.* 3. p. 1511. Upper-leaves entire.

* *palustris.* Peduncles and calyx bristly, somewhat umbelled: leaves runcinate, arrow-shaped at the base, rough on the margin.

Marthes. *Eng. Bot.* t. 935. *Curt. Lond. fasc.* 5. t. 59.

* *arvensis.* Peduncles and calyx bristly, somewhat umbelled: leaves runcinate, heart-shaped at the base: root creeping.

Corn-fields. *Engl. Bot.* t. 674. *Curt. Lond. fasc.* 4. t. 53.

- agrestis.* Peduncles downy, many-flowered: calyx glabrous: stem stiff: leaves cut-ferrate, sessile.
Jamaica. *Swartz. prodr.* 110.
- lateralis.* Peduncles somewhat downy, umbelled: calyx glabrous: leaves pinnatifid, toothed, appendaged and heart-shaped at the base.
— *Willd.* 3. p. 1513. Leaves clasping at the base.
- angustifolius.* Nearly stemless: leaves pinnate, glaucous, with linear denticulate segments.
Barbary. *Desfont. Atl.* 2. p. 225. Calyx glabrous.
- umbellifer.* Peduncles bristly, somewhat umbelled: leaves heart-oblong, ferrate.
The Cape. *Thunb. prodr.* 139.
- glaber.* Peduncles and calyx glabrous, umbelled: leaves heart-shaped, runcinate.
The Cape. *Thunb. prodr.* 139.
- goraensis.* Peduncles lateral, very short, clothed with white scarious scales: leaves lyrate, with subspinous teeth.
Goree. *Lamarck. Encyclop.* 3. p. 383.
Plant glabrous: flowers yellow, nearly sessile.
- oleraceus.* Peduncles wooly, umbelled: calyx glabrous: leaves runcinate, toothed.
Wastes. *Engl. Bot.* t. 843. *Curt. Lond. fasc.* 2. t. 58.
- tenerimus.* Peduncles downy, umbelled: calyx hairy: leaves doubly pinnatifid, heart-arrow-shaped at the base.
Montpelier, Barbary. *Pluk. phyt.* 93. fig. 3.
Stem branched, clothed with glutinous hairs.
- chondrilloides.* Root-leaves unequally pinnatifid, those of the stem linear-lanceolate and toothed: peduncles long, 1-flowered.
Barbary, Sicily. *Bocc. sic. tab.* . fig. A.
Plant glabrous, glaucous: branches slender.
- hispamicus.* Leaves clasping, the stem oblong-pinnatifid, toothed, dotted with white: peduncles scaly, swelling: calyx spreading every way.
Spain. *Jacq. hort. Schænb.* 2. p. 9. tab. 143.
Plant glaucous, covered white dots.
- tingitanus.* Leaves clasping the stem, oblong-pinnatifid, toothed, glabrous: peduncles scaly, thickened: calyx spreading every way.
Barbary. *Curt. Magaz. tab.* 142. Scorzonera.
- picroides.* Stem-leaves clasping, oblong almost entire; the radical-ones somewhat lyrate and runcinate: peduncles scaly, thickened: scales of the calyx appressed.
South of France, Barbary. *Allion. Pedem. tab.* 16. f. 1.
Scorzonera picroides. *Sp. pl.* 1114.

- dichotomus*. Root-leaves runcinate : stem forked, nearly leafless : peduncles not thickened at top.
Arabia. *Vahl. symb.* 2. p. 89. *Scorzonera*.
- Plumieri*. Peduncles naked : flowers paniced : leaves runcinate.
Pyrenees. *Corol* with a single row of florets.
- macrophyllus*. Peduncles hairy, naked : flowers paniced, leaves lyrate, heart-shaped at the base, hairy underneath.
North America. *Root* tuberous : *flowers* blue.
- *cæruleus*. Peduncles bristly, naked, 1-flowered racemed, with bractes : leaves runcinate, with the terminal base livid and large, glaucous underneath.
High pastures. *Flor. Dan.* t. 182. *S. canadensis*. *Sp. pl. With.*
- alpinus*. Peduncles scaly : flowers racemed : leaves runcinate, pointed, glabrous : stem simple.
Lapland. *Smith. ic. ined. tab.* 21.
- leucophæus*. Peduncles scaly : flowers racemed : leaves runcinate, pointed : stem in a wand-like panicle.
North America. *Flowers* bluish-white.
- floridanus*. Peduncles somewhat scaly, paniced : leaves lyrate and runcinate, denticulate, petioled.
Virginia, Canada. *Flowers* small blue.
- acuminatus*. Peduncles somewhat scaly, paniced : root-leaves somewhat runcinate ; stem-leaves ovate, pointed, petioled.
North America. *Jacq. hort.* 3. t. 367 ? *Lactuca*.
- Pallidus*. Raceme compound, terminal : leaves lance-ensiform, clasping the stem, toothed.
Canada. *Sp. pl.* 119. *Lactuca canadensis*.
- fibricus*. Peduncles scaly : flowers corymbed : leaves lanceolate, sessile ; the lower-ones runcinate and toothed, upper-ones very entire.
Siberia. *Gmel. Sib.* 2. tab. 3. Leaves often entire.
- tataricus*. Peduncles naked : flowers in corymb-like panicles : leaves lanceolate, runcinate, tapering to the base.
Tartary, Siberia. *Leaves* with a white rib.
1438. LACTUCA. *Receptacle* naked : *calyx* imbricate, cylindrical, with a membranaceous margin : *down* simple, pedicelled : *seeds* unarmed. *Lettuce*.
- sativa*. Leaves rounded, those of the stem heart-shaped : stem corymbed.
—— *Blackwall.* t. 88. *Moris.* 3. *sect.* 7. t. 2. f. 1-9.
- crispa*. Leaves sinuate and crenate, toothed, undulate, curled ; the radical-ones hairy on the keel : florets 5-parted.
—— *Roth abb.* 24. *Baub. pin.* 123.

- palmata.* Lower-leaves 3-parted and pinnatifid, the segments oblong and obtuse; upper-ones heart-shaped.
— *Willd. phytog.* 10. *Sp. pl.* 1525.
- intybacea.* Leaves runcinate, ciliate with teeth, obtuse, clasping, arrow-shaped; radical ones obovate: stem paniced.
South America. *Jacq. ic. rar.* 1. *tab.* 162.
- racemosa.* Leaves lyrate and runcinate, pointed, clasping; the upper-ones lanceolate and very entire: stem simple.
Armenia. *Willd.* 3. *p.* 1524. Raceme terminal.
- quercina.* Leaves smooth underneath; the lower-ones runcinate, denticulate, dilated and arrow-shaped at the base; upper-ones lanceolate, arrow-shaped: panicle contracted.
Germany. *Lower-leaves* toothed at the base.
- fricta.* Leaves smooth underneath: the radical and lower-ones runcinate-lyrate and toothed; upper-ones runcinate-pinnatifid, narrowed at the base and arrow-shaped: flowers corymbed.
Hungary. *Waldst. et Kitaib. Hung.* 1. *tab.* 48,
- Chaixi.* Leaves smooth underneath; the radical-ones lyre-runcinate; those of the stem lanceolate, toothed, arrow-shaped at the base, the lobes truncate and toothed at top; flowers racemed.
Dauphiny. *Vill. Delph.* 3. *p.* 154. *tab.* 32.
- elongata.* Leaves smooth underneath; the lower-ones runcinate, very entire, clasping; upper-ones lanceolate, sessile: flowers racemed.
Pennsylvania. *Willd.* 3. *p.* 1525. Leaves sessile.
- capensis.* Leaves runcinate-pinnatifid, glabrous: stem weak.
The Cape. *Thunb. prodr.* 139.
- Scariola.* Leaves perpendicular, prickly on the keel, acute at top, arrow shaped at the base, sinuate and denticulate.
Wastes. *Eng. Bot. tab.* 268.
- virofa.* Leaves horizontal, prickly on the keel, obtuse at top, arrow-shaped at the base, oblong-lanceolate; the lower-ones sinuate and denticulate.
Hedges and old walls. *Woodw. Med. Bot. tab.* 150.
- augustana.* Leaves smooth underneath, oblong-lanceolate, ciliate with teeth, arrow-shaped at the base.
Piedmont. *Allion. Pedem. n.* 823. *tab.* 52. *f.* 1.
Lower-leaves not sinuate: seeds brown.
- agittata.* Leaves smooth underneath, arrow-shaped: the lower-ones oblong, tapering to the base, denticulate; ; upper-ones lanceolate, very entire.
Hungary. *Waldst. Kitaib. Hung.* 1. *tab.* 1.

- * *saligna*. Leaves prickly on the keel; the radical-ones lanceolate pinnatifid; upper-ones linear, very entire, arrow-shaped.
Walters. *Eng. Bot. tab.* 707. *Jacq. Austr. t.* 250.
- tuberosa*. Leaves with spinous denticles: stem simple: root tuberous, manifold.
— *Jacq. hort; i. tab.* 57.
- indica*. Leaves jagged and ensiform, sessile, unequally toothed.
Java. *Panicles* much branched.
- seguisiana*. Lower-leaves lanceolate, runcinate and toothed, tapering to the base and sessile; upper-ones linear and arrow-shaped: stem branched.
Piedmont. *Willd. 3. p.* 1529. Flowers purple.
- tenerima*. Root-leaves pinnatifid and toothed: stem-leaves linear, entire arrow-shaped: stem divaricately branched; branches 1-flowered.
Spain. *Willd. 3. p.* 1529. Flowers purple, large.
- perennis*. All the leaves pinnatifid, with linear segments toothed upwards: flowers in corymb-like panicles.
Germany, France. *Mill. fig. tab.* 105. *fig.* 157,
- sonchifolia*. Leaves runcinate-pinnatifid, unequally toothed; floral ones lanceolate: flowers racemed.
Crete, Tartary. *Linn. suppl.* 346. *Sonchus tuberosus*.
Peduncles short, scaly: *flowers* pale blue.

1439. CHONDRILLA. *Receptacle* naked: *calyx* invested with scales: *down* simple, on a pedicel: *florets* in many rows: *seeds* muricate. *Gum-succory*.

- juncea*. Root-leaves runcinate; stem-leaves linear, very entire.
Germany, France. *Jacq. Austr. 5. 12. tab.* 427.
Calyx rough beneath: *flowers* slender, yellow.
- crepoides*. Leaves arrow-shaped, clasping: stem simple: flowers nearly sessile, lateral.
— *Leaves* entire, rough, the lowest denticulate.
- nudicaulis*. Scape naked: flowers paniced.
Egypt. *Murr. nov. Comm. Goett. 3, t.* 4. *Lactuca*.
Root-leaves runcinate, obtuse, ciliate with teeth.
Scapes with a leaf or two: *flowers* pale yellow.

1440. PRENANTHES. *Receptacle* naked: *calyx* invested with scales: *down* simple, mostly sessile: *florets* in a single row.

- tenuifolia*. Leaves linear, very entire, clasping: stem simple.
South of Europe. *Allion. Pedem. tab.* 33. *f.* 2.

- bispida.* Leaves linear, very entire, sessile, bristly at the base: stem branched, wand-like. Siberia. *Pall. it. 1. app. n. 126.* Florets 8 or 10.
- chinenfis.* Leaves linear-ensiform, entire and toothed. China, Japan. *Thunb. jap. 301.* Plant glabrous.
- virgata.* Upper-leaves linear-lanceolate, entire; radical-ones sinuate: stem quite simple. North America. *Willd. 3. p. 1533.* Flowers nodding.
- purpurea.* Florets about 5: leaves oblong-lanceolate, clasping, heart-shaped, denticulate, glaucous underneath. South of Europe. *Jacq. Austr. tab. 317.* Flowers purple.
- javanica.* Florets about 5: leaves oblong-lanceolate, unequally toothed, heart-spear-shaped. Java. *Burm. ind. 174. tab. 57. f. 1.* Hieracium.
- lanceolata.* Florets 12: leaves oblong-lanceolate, sessile, very entire: panicle cendensed. Japan. *Houtt. Linn. syst. 9. tab. 66. fig. 2.*
- debilis.* Leaves ovate, sessile, very entire: stem nearly naked, erect. Japan. *Thunb. Jap. 300.* Plant weak, glabrous.
- dentata.* Florets 12: leaves roundish-ovate, toothed, clasping: stem panicled. Japan. *Houtt. Linn. syst. 9. tab. 66. fig. 4.* Plant glabrous: peduncles spread, umbelled.
- rhombifolia.* Florets 5: leaves rhomb-ovate, doubly toothed, petioled: panicles filiform. Caraccas. *Willd. 3. p. 1535.* Leaves opposite.
- bastata.* Leaves halbert-shaped, clasping, toothed: stem branched. Japan. *Thunb. Jap. 301.* Plant glabrous.
- alba.* Florets numerous: leaves angular and halbert-shaped, toothed: flowers nodding: racems panicled. Carolina. Leaves sometimes 3-lobed and toothed.
- rubicunda.* Florets numerous: leaves ciliate; the lower-ones obovate, tapering to the base, some-what angular; upper-ones lanceolate, very entire: raceme simple: flowers nodding. Pennsylvania. *Willd. 3. p. 1517.* Stem simple.
- repens.* Florets numerous: lower-leaves 3-lobed, very entire; floral-ones lanceolate, toothed: peduncles 2-flowered. Siberia. *Amæn. Acad. 2. p. 560. tab. 4. f. 23.* Shoots creeping: stem erect.

- altissima*. Florets about 5 : leaves 3-lobed, petioled, angular, denticulate, rough at the margin : racemes axillary : flowers nodding.
Virginia. *Pluk. alm.* 355. *tab.* 317. *f.* 2. *Souchus*.
- chondrilloides*. Florets about 10 : calyx 8-cleft : leaves lanceolate ; the radical-ones undivided and slightly toothed.
South of Europe, Arabia. *Ard. spec.* 2. *p.* 36. *tab.* 7.
Stem paniced : stem-leaves linear.
- spinosa*. Leaves linear, tooth-sinuate, sessile, : stem shrubby, much branched ; the branches spinous.
Spain, Barbary. *Vahl. symb.* 2. *p.* 66.
- ramosissima*. Stem-leaves linear, very entire, decurrent ; radical-ones runcinate, pointed, entire : stem much branched.
South of France. *Allion. Ped. n.* 1830. *tab.* 33. *f.* 1.
Root-leaves pointed : stem-leaves all linear.
- viminea*. Leaves decurrent ; the lower ones pinnatifid and toothed outwardly ; upper-ones linear ; stem branched, divaricate
South of Europe. *Jacq. Austr. tab.* 9.
- aspera*. Leaves elliptic, sessile, with spinulous teeth ; stem branched ; peduncles and calyx slightly downy.
— *Willd.* 3 *p.* 1539. Florets numerous, yellow.
- pinnata*. Leaves pinnate with linear-filiform leaflets ; panicle corymbed, peduncled ; stem shrubby.
Teneriff. *Skrub* with roundish resinous branches.
- sarmentosa*. Leaves pinnatifid, with rounded segments ; stem trailing ; peduncles 1flowered, scaly.
East Indies. *Willd. Phytogr.* 10. *n.* 33. *tab.* 6. *f.* 2.
- asplenifolia*. Leaves pinnatifid, with alternate oblong rounded segments ; scapes forked.
East Indies. *Willd.* 3. 1540. Florets numerous.
- sonchifolia*. Leaves runcinate, clasping, ciliate with teeth ; panicle corymbed, naked, terminal.
East Indies. *Willd.* 3. *p.* 1541. Florets about 5.
- bieracifolia*. Root-leaves runcinate ; stem-leaves ovate-lanceolate, arrow-shaped at the base ; panicle corymbed, divaricate, naked.
France. *Crepis pulchra. sp. pl.* 1134.
Calyx angular : florets numerous.
- squarrosa*. Leaves clasping, runcinate ; the segments of the lower-ones lanceolate and toothed upwards, of the upper-ones linear and very entire ; panicle contracted, thyrselike.
Japan. *Houtt. Linn. syst.* 9. *t.* 66. *f.* 1. *P. laciniata*.

- multiflora*. Leaves petioled, runcinate, with ovate-toothed lobes; panicle flat-topped, diffuse.
Japan. *Thunb. Jap.* 303. Stem villous below.
- acanthifolia*. Leaves lyre-runcinate, toothed, clasping, glabrous, woolly at the base; flowers in spikes.
Crete. *Willd. 3. p.* 1542. Flowers mostly sessile.
- crisanifolia*. Leaves lyre-pinnatifid, toothed, with the terminal lobe halbert-shaped; flowers in forked corymbs.
The East. *Willd. 3. p.* 1542. Corymbs naked.
- * *muralis*. Leaves lyre-pinnatifid, toothed, with the terminal lobe 5-angled; flowers paniced.
Groves. *Eng. Bot. t.* 457. *Curt. Lond. fasc. 5. t.* 58.
Florets 5: down on a short stalk.
- japonica*. Leaves lyrate, with rounded obtuse lobes; stem nearly naked; panicle many-flowered, spreading.
Japan. *Thunb. Jap.* 302. Florets about 15.
- humilis*. Leaves lyrate, with obtuse lobes; stem nearly naked; flowers terminal, 2 or 3 together.
Japan. *Thunb. Jap.* 302. Stems weak, decumbent.
- lyrata*. Leaves runcinate-lyrate, toothed; panicle compact.
Japan. *Houtt. Linn. syst. 9. p.* 50: *tab.* 66. *fig.* 3.
1441. LEONTODON. *Receptacle* naked: *calyx* double: down simple, pedicelled. *Dandelion*.
- * *Taraxacum*. Outer-calyx reflected: scape 1-flowered: leaves runcinate, glabrous, with lanceolate toothed lobes.
Pastures. *Engl. Bot. t.* 510. *Curt. Lond. fasc. 1. tab.* 58.
- serotinus*. Outer-calyx spreading: scape 1-flowered: leaves runcinate, rough, with rounded denticulate lobes.
Hungary. *Waldst. et. Kitaib Hung. 2. p.* 119. *tab.* 114.
- * *palustris*. Outer-calyx erect, appressed, with ovate scales: scape 1-flowered: leaves sinuate, toothed, nearly glabrous.
L. lividus. *Willd. 3. p.* 1545. *Waldst. Kitaib. Hung. 2. t.* 115.
Marshes and wet moors. *Engl. Bot. tab.* 593.
- laevigatus*. Outer-calyx erect, appressed, with ovate scales; scape 1-flowered: leaves runcinate-pinnatifid, toothed, glabrous.
Spain. *Willd. 3. p.* 46. Lobes of the leaves triangular.
- obovatus*. Outer-calyx spreading, with ovate scales; scape 1-flowered: leaves obovate, rather obtuse, toothed.
Spain. *Willd. 3. p.* 1546. Leaves never runcinate.

1442. *APARGIA*. *Receptacle* naked: *calyx* imbricate: *down* feathery, sessile.

aurantiaca. Scape 1-flowered, naked, thickened and hairy towards the top: calyx bristly: leaves lance-oblong, slightly toothed.

Hungary. *Waldst. et. Kitaib. pl. rar. Hung.*

Leaves glabrous: scape not scaly: flowers orange.

alpina. Scape 1-flowered, scaly, thickened and little hairy towards the top: leaves lance-oblong, nearly glabrous.

Alps. *Jacq. Austr. 1. tab. 93. Leontodon alpinum.*

crocea. Scape 1-flowered, scaly, thickened and hairy towards the top: calyx bristly: leaves runcinate, glabrous; with the terminal lobe triangular.

Alps. *Willd. 3. p. 1548. Leaves deeply runcinate.*

hastilis. Scape 1-flowered, naked, glabrous: calyx glabrous: leaves lanceolate, with runcinate teeth, glabrous.

Leontodon hastile. Jacq. Austr. 1. 164. sp. pl. 1123.

South of Europe. *Allion. Ped. 1. 70. f. 3. Picris.*

dubia. Scape 1-flowered, nearly naked, hairy towards the top: calyx hairy: leaves lanceolate, toothed at the base, a little hairy, with the hairs forked.

Alps. *Willd. 3 p. 1549. Scares with a scale or two.*

tuberosa. Scape 1-flowered, naked, nearly glabrous: scales of the calyx acute and hairy: leaves obovate-runcinate hairy, rough, with the hairs forked: root tuberos.

Leontodon tuberosum. Sp. pl. 1123.

South of Europe. *Lob. ic. 232. Chondrilla.*

incana. Scape 1-flowered, nearly naked pubescent: calyx pubescent: leaves lanceolate, acute, slightly denticulate, hoary-rough; the hairs many-cleft.

South of Europe. *Jacq. Austr. t. 287. Hieracium.*

**Taraxaci*. Scape 1 or 2-flowered, erect, nearly naked, thickened towards the top: calyx hairy: leaves with runcinate teeth, glabrous.

Hedynois Taraxaci. Smith. fl. Brit. 2. p. 825.

Hieracium Taraxaci. Sp. pl. 1125. With. Hull.

Mountains. *Engl. Bot. t. 1109. Allion. Ped. 1. t. 31. f. 1.*

**autumnalis* Scapes branched, declined, scaly: leaves lanceolate, runcinate-pinnatifid, nearly glabrous.

Hedynois autumnalis. Smith. flor. Brit. 2. p. 826.

Leontodon autumnale. Sp. pl. 1123. With. Hull.

Meadows. *Engl. Bot. t. 830. Flor. Dan. t. 501.*

- crispa.* Scape naked, 1-flowered, hairy: calyx hairy: leaves runcinate-pinnatifid, hairy, with recurved toothed lobes; the hairs 3-forked.
France. *Vill. Delph.* 3. t. 84. f. 5. Leontodon.
- * *hispida.* Scape naked, 1-flowered, hairy: calyx hairy: leaves toothed downwards, the hairs forked.
Leontodon hispidum. *Sp. pl.* 1124. *Fl. lan.* t. 862.
Hedvphnois hispidum. *Engl. Bot. tab.* 554. *Smith.*
Pastures. *Curt. Lond. fasc.* 5. tab. 56. Leontodon.
Florets hairy at the orifice, glandular at the tip.
- Villarisi.* Scape naked, 1-flowered, nearly glabrous: calyx glabrous: leaves pinnatifid-toothed, bristly: the hairs simple and subulate.
Dauphiny. *Vill. delph* 3. p. 82. t. 25. Leontodon.
- coranopifolia* Scape 1-flowered, scaly, shorter than the leaves, and calyx bristly: leaves pinnatifid, with obtuse bristly lobes: the hairs forked.
Barbary. *Desfont Atl.* 2. p. 229. t. 214. Leontodon.
- hispanica.* Stem leafy, 1 or 2-flowered, and calyx hairy: leaves lanceolate, toothed, hairy; the hairs forked.
Spain. *Carrau. ic.* t. 149. Leontodon hispidum.
- aspera.* Stem leafy, slightly branched, hairy: calyx glabrous: leaves lanceolate, runcinate, hairy: the hairs forked.
Hungary. *Waldst. et. Kitaib. Hung.* 2. tab. 110.
Scales of the calx appressed, glabrous, ciliate.
- variegata.* Stem nearly naked, branched, villous: root-leaves toothed, stem-leaves pinnatifid: scales of the calyx dead at the tip, villous at the margin.
Alps. *Willd.* 3. p. 1554. Calyx variegated.
- bieracioides.* Stem branched, hairy: leaves oblong-lanceolate, toothed, hairy: the hairs forked.
Galatia. *Willd.* 3. p. 1554. Peduncles scaly.

1443. THRINCIA. *Receptacle* cellular: down of the margin a many-cleft membrane, of the centre feathered and pedicelled: calyx 8-angled, 8-leaved.

- * *hirta.* Scape 1-flowered: calyx nearly glabrous, scaly at the base: leaves lanceolate, sinuate-toothed, rough with simple hairs.

Hedypnois hirtum. *Engl. Bot. tab.* 555. *Smith.*

Leontodon hirtum. *Sp. pl.* 1123. *With, Hull.*

Pastures. *Curt. Lond. fasc.* 6. tab. 59.

bispida. Scape 1-flowered, hairy : calyx a little hoary, naked: leaves: lanceolate, obtuse, toothed, with forked hairs.
Spain, France. *Vill. Delph. 3. tab. 25.* Hyoseris.

1444. PICRIS. *Receptacle* naked: *down* feathery, pedicelled: *seeds* transversely striate: *calyx* invested with scales. *Ox-tongue.*

* *hieracioides*. Stem erect, rough: leaves clasping, lanceolate, toothed; flowers corymbed: outer-calyx lax.
Borders of fields. *Engl. Bot. t. 196.*

japonica. Stem erect, bristly: leaves sessile, hairy, lanceolate, toothed: flowers paniced: calyx bristly, the outer-scales appressed.
Japan. *Thunb. Jap. 299.* Peduncles leafless.

aculeata. Stem erect, with stiff bristles: leaves elliptic-lanceolate, toothed: flowers corymbed: calyx bristly: the outer scales lax.
Barbary. *Desfont. Atl. 2. p. 221.*

pauciflora. Stem erect, hairy: leaves lanceolate, sessile, denticulate: peduncles elongated, thickened at top: calyx hairy, the outer-scales lax.
South of France. *Willd. 3. p. 557.*
Stem clothed with short hairs: leaves tapering.

asplenoides. Stem ascending, rough: leaves oblong-lanceolate, obtuse, sinuate-pinnatifid: peduncles long, thickened at top: calyx rough, the outer scales reflected.
Barbary. *L'Herit. stirp. 173. tab. 82.* Leontodon.

ruderalis. Stem erect, bristly: leaves lanceolate, ciliate with teeth: peduncles and calyx bristly.
Bohemia. *Willd. 3. p. 1558.* Peduncles remote.

1445. HIERACIUM. *Receptacle* mostly naked, dotted: *calyx* imbricate, ovate: *down* simple, sessile.
Hawk-weed.

A. *Scape with a single flower.*

aureum. Scape 1-flowered, nearly naked: calyx bristly: leaves lance-spatulate, runcinate-toothed, nearly glabrous.
Alps. *Jacq. Austr. t. 297. Sp. pl.* Leontodon.
Receptacle villous: *calyx* brown: *scape* 1-leaved.

rupestre. Scape 1-flowered, 1-leaved: calyx hairy: leaves lanceolate, runcinate-toothed, slightly pubescent, with the teeth recurved.
Piedmont. *Allion, Austr. p. 12. tab. 1. fig. 2*

- pinnatifidum*. Scape 1-flowered: naked: leaves runcinate-pinnatifid, villous both sides, toothed.
Armenia. *Willd.* 3. p. 1560. Plant hoary: flowers yellow.
- purpureum*. Scape 1-flowered, naked: leaves pinnatifid, villous underneath: with linear-lanceolate acute toothed lobes.
Tauria. *Willd.* 3. p. 1460. Plant hoary: flowers purple.
- alpestre*. Scape 1-flowered, 1-leaved, downy towards the top: calyx cylindrical, downy: leaves lanceolate, denticulate.
Austria. *Jacq. Austr.* t. 191. Leaves glabrous.
- * *alpinum*. Scape 1-flowered, nearly naked, hairy: calyx very hairy: leaves oblong, entire or slightly toothed, hairy.
Mountains. *Engl. Bot. t.* 1110. *Ray. Syn.* 160. t. 6. f. 2.
- pumilum*. Scape 1-flowered, 1-leaved: leaves lance-spatulate, obtuse, entire, and calyx hairy.
Alps. *Willd.* 3. p. 1562. Probably a variety of the last.
- glabratum*. Scape 1 or 2-flowered, leafy, hairy towards the top: calyx villous: leaves lanceolate, acute, very entire, quite glabrous.
Alps. *Willd.* 3. p. 1562. Calyx with white hairs.
- bulbosum*. Scape 1-flowered, naked, thickened towards the top, hairy: calyx glabrous: leaves lance-oblong, slightly toothed, glabrous.
South of Europe. *Col. phyt.* 11. t. 4. *Leontodon. Sp. pl.* 1122.
- * *Pilosella*. Scape 1-flowered, naked: leaves ovate, very entire, downy underneath: shoots creeping.
Pastures. *Engl. Bot. t.* 1093. *Curt. Lond. fasc.* 4. t. 54.
- B. Scape many-flowered.
- * *dubium*. Scape about 4-flowered, naked: leaves oblong, obtuse, mostly entire: shoots creeping.
High Pastures. *Fl. Dan. t.* 1111. *H. Auricula*.
- * *Auricula*. Scape about 6-flowered, 1-leaved; flowers umbelled: leaves lanceolate, acute, very entire: shoots creeping.
Mountains. *Flor. Dan. tab.* 1043. *H. Dubium*.
- repens*. Scape branched, many-flowered, naked, hairy: leaves oblong, rather obtuse, very entire: shoots creeping.
— *Willd.* 3. p. 1564. Leaves hairy.
- angustifolium*. Scape about 3-flowered, 1-leaved, hairy: leaves linear-lanceolate, acute, hairy.
Alps. *Willd.* 3. p. 1565. Shoots 2, and in all the rest.

- florentinum*. Scape leafy, nearly glabrous: flowers in corymbed panicles, with the proper peduncles divaricate: calyx hairy: leaves lanceolate, acute, very entire, nearly glabrous.
South of Europe. *Moris. sect. 7. t. 8. f. 11.* Pilosella.
Scape nearly glabrous: leaves glaucous-green.
- cymosum*. Scape leafy, bristly: flowers in corymbed panicles, with the partial peduncles clustered: calyx bristly: leaves oblong-lanceolate, nearly entire, hairy.
Russia, Germany. *Moris. sect. 7. t. 8. f. 10.* Pilosella.
- sticticifolium*. Scape nearly naked, branched, about 3-flowered: peduncles scaly: leaves linear-lanceolate, denticulate, glabrous.
France, Italy. *Vill. Delph. 3. p. 116. tab. 27.*
- præmorsum*. Leaves ovate, slightly toothed: scape naked, racemed; upper-flowers opening first.
Germany, Switzerland. *Gmel. Sib. 2. p. 32. t. 13. f. 2.*
- integrifolium*. Scape leafy, roughish: flowers corymbed: leaves of the scape lanceolate, very entire, decurrent, radical-ones petioled, oblong, obtuse, nearly entire, rough.
South of Europe. *Wild. 3. p. 1568.* Flowers large, yellow.
- incarnatum*. Scape naked, rough at the base: flowers in racemed corymbs: leaves oblong, obtuse, denticulate, hairy.
Carinthia. *Jacq. ic. rar. t. 578.* Flowers flesh-colour.
- * *aurantiacum*. Scape leafy, bristly: flowers corymbed: peduncles crowded: leaves elliptic, entire, rather acute, hairy.
Scotland. *Engl. Bot. t. 1460. Jacq. Aust. t. 410.*
- Lawsonii*. Scape nearly naked, branched: calyx with glandular hairs: leaves oblong, acute, very entire, woolly.
Dauphiny. *Vill. Delph. 3. p. 118. tab. 29.*
- laniferum*. Scape nearly naked, branched: peduncles thickened at top, scaly: leaves oblong-lanceolate, very entire, woolly at the base.
Spain. *Cavan. ic. 3. p. 18. tab. 234.*
- venosum*. Scape naked, branched: calyx glabrous: leaves obovate, rather acute, very entire, ciliate, with coloured veins.
North America. *Leaves with red veins and dots.*
- Gronovii*. Scape leafy, corymb-paniced: calyx pubescent: root-leaves very entire, obovate, obtuse, ciliate.
Virginia. *Gron. Virg. 1. p. 90.* Flowers small, yellow.

erocœum. Scape nearly naked, branched: calyx with black hairs: leaves lanceolate, pinnatifid-runcinate, toothed, glabrous.

Siberia. *Gmel. Sib. 1. p. 22. tab. 8. f. 1.* Flowers saffron.

Gmelini. Scape naked, corymbed: leaves lyre-runcinate, hairy.

Siberia. *Gmel. Sib. 2. p. 23. tab. 8. fig. 2.*

C. Stem leafy.

paniculatum. Stem erect: leaves alternate, lanceolate, naked, toothed; panicle capillary.

Canada. Stem woolly below: peduncles spreading.

marianum. Stem erect, villous: leaves elliptic-obovate, with stiff bristles, villous on the keel; the lower-ones slightly toothed: peduncles and calyx downy.

North America. *Pluk. Mant. 102. tab. 402. f. 2.*

obondriloides. Stem erect, few-flowered: stem-leaves lanceolate, pointed, runcinate; radical-ones oblong-lanceolate, undivided.

Austria. *Jacq. vind. 273. tab. 7.* Calyx bristly.

humile. Stem erect, few-flowered: peduncles and calyx hairy: leaves oblong, slightly pinnatifid at the base.

Alps. *Jacq. Austr. t. 189. Vill. Delph. 3. p. 123. t. 28.*

nigrescens. Stem naked, few-flowered: peduncles and calyx glandular-pubescent, blackish: leaves oblong, petioled, toothed at the base.

— *Willd. hort. tab. 10.* Leaves all petioled.

pratense-linum. Stem procumbent, branched at the base, few-flowered: peduncles and calyx downy: leaves ovate, unequal at the base, denticulate, petioled, with the petioles toothed.

South of Europe. *Gouan. ill. t. 22. f. 3. All. Ped. t. 15. f. 2.*

Petioles as long as the flower, dilated at top, red.

fetidum. Stem branched, erect, few-flowered: calyx and peduncles pubescent: leaves lyre-runcinate, petioled.

Armenia. *Willd. 3. p. 1575.* Petioles toothed.

montanum. Stem erect, simple, leafy, 1-flowered: leaves ovate-lanceolate, denticulate, sessile.

Austria, France. *Jacq. Austr. t. 190. Vill. Delph. 3. t. 23.*

porrifolium. Stem erect, branched, leafy: leaves linear, entire.

Alps. *Jacq. Austr. t. 286. Vind. tab. 6.*

Leaves linear, narrow, pointed, very entire.

- saxatile.* Stem erect, branched: leaves linear-lanceolate, mostly entire, tapering to both ends, hairy and ciliate at the base.
Austria. *Jacq. ic. rar.* 1. t. 136. *Obs. Bot.* 2. t. 50.
- glaucum* Stem erect, branched: leaves lanceolate, sessile; slightly toothed, glaucous, tapering to both ends.
France, Italy. *Allion. Pedem.* t. 28. f. 1. t. 81. f. 1.
- * *molle.* Stem erect, hairy, hollow, paniced: stem-leaves oblong-lanceolate, clasping; radical-ones petioled, toothed.
Woods of Scotland. *Jacq. Austr.* t. 119.
- murorum.* Stem erect, leafy, hairy, simple, paniced: leaves ovate, deeply toothed at the base.
Woods, old walls. *Blackw.* t. 538. *Fl. Dan.* t. 113.
- sylvaticum.* Stem erect, leafy, simple: leaves oblong, villous, slightly toothed: flowers paniced.
France, Italy. *Allion. Ped.* t. 28. f. 1. *H. murorum.*
- ramosum.* Stem erect, branched from the base: leaves ovate, petioled, deeply toothed at the base: flowers paniced.
Hungary. *Waldst. et. Kitaib. pl. rar. Hung.*
All the leaves petioled, not hairy.
- * *paludosum* Stem simple, hollow, paniced: leaves glabrous, ovate, remotely toothed; those of the stem clasping and heart-shaped: calyx bristly.
Alpine shades. *Engl. Bot.* t. 1094. *Flor. Dan.* t. 928
- lapsanoides.* Stem simple: stem-leaves lyre-runcinate, clasping, hairy: flowers paniced; calyx bristly.
Pyrenees. *Gouan illust.* 57. tab. 21. fig. 3.
- lyratum.* Stem simple: leaves glabrous; radical-ones runcinate-lyrate; those of the stem lanceolate; calyx and peduncles bristly.
Siberia. *Gmel. Sib.* 2. tab. 24. f. 9. Stem smooth.
- cerinthoides.* Stem erect, villous; leaves hairy, somewhat denticulate; radical-ones obovate; those of the stem oblong and half clasping: calyx hairy.
Pyrenees. *Gouan. ill.* t. 22. f. 4. *Vill. Delph.* 3. t. 32.
Leaves ciliate, those of the stem nearly entire.
- flexuosum.* Stem erect, glabrous below: leaves somewhat villous, lanceolate acute; radical-ones denticulate; those of the stem sessile and half clasping; calyx villous.
Alps. *Willd.* 3. p. 1581. Stem erect; leaves glaucous.

- croaticum*. Stem erect, glabrous above, roughish: leaves hairy, slightly denticulate; radical-ones oblong; those of the stem oblong, half clasping: calyx pubescent.
Croatian Alps. Willd. 3. p. 1581.
- amplexicaule*. Stem erect branched: leaves ovate-hearted, clasping the stem, toothed towards the base: peduncles and calyx hairy.
Pyrenees. Stem striate: leaves green both sides.
- pyrenaicum*. Stem erect, simple, grooved, nearly glabrous: root leaves oblong, deeply toothed at the base; those of the stem halbert-arrow-shaped, clasping, toothed: calyx lax, hairy.
South of Europe. Jacq. Austr. t. 441. Vind. 270. t. 5.
Stem glabrous or pubescent, 1-flowered or panicle.
- sibiricum*. Stem erect, panicle, grooved, pubescent: leaves wrinkled; the radical-ones oblong, toothed; those of the stem clasping, unequally and deeply toothed at the base; the upper-ones lanceolate: calyx lax, bristly.
Siberia. Gmel. Sib. 2. t. 10. *Crepis sibirica*. Sp. pl. 1135.
Lower-stem leaves with winged toothed petioles.
- grandiflorum*. Stem ascending, simple, grooved, with viscid hairs: leaves lanceolate, with recurved teeth; those of the stem slightly toothed, clasping, arrow-halbert-shaped: calyx bristly.
Alps. Allion. Pedem. n. 794. t. 31. Waldst. Hung. t. 99.
- intybacéum*. Stem erect, branched, bristly: leaves lanceolate, toothed, sessile, tapering to both ends: peduncles thickened: calyx lax, bristly.
Alps. Jacq. Austr. t. 43. Vill. Delph. 3. tab. 31.
- ciliatum*. Stem erect, branched: root-leaves toothed; stem-leaves slightly toothed, lanceolate, clasping, arrow-shaped: calyx spreading, bristly.
Crete. Tourn. Cor. 35. Calyx ciliate.
- * *villosum*. Stem erect, slightly branched, and leaves villous: root-leaves oblong lanceolate, toothed, those of the stem ovate, hearted, clasping, slightly toothed: calyx very hairy, spreading.
Moist mountains. Jacq. Austr. t. 87.
- lanatum*. Stem erect, simple, leafy at the base, villous, nakedish above and nearly glabrous: leaves oblong, tapering to the base, toothed, woolly; those of the stem sessile: calyx spreading, hairy.
Hungary. Waidjt. K. taib. pl. rar. Hung. 2. tab. 127.

- Halleri.* Stem erect, about 2-flowered: leaves hairy, toothed; the radical-ones oblong; those of the stem lanceolate, sessile: calyx villous.
Dauphiny. *Vill. Delph.* 3. p. 104. tab. 26.
- echinoides.* Stem erect, with stiff bristles: leaves lanceolate, nearly entire, with stiff bristles, tapering to the base: flowers corymbd.
Hungary. *Waldst. Kitaib, pl. Hung.* 1. tab. 85.
- undulatum.* Stem erect, branched, hoary: leaves obovate-oblong, toothed towards the base, hoary pubescent, with the hairs feathery.
Spain. *Ait. Kew.* 3. p. 124. Plant hoary-pubescent.
- glutinosum.* Leaves lanceolate, runcinate, roughish: flowers in umbels.
Narbon. *Leaves* soft, glutinous, upper-ones entire.
- Kalmi.* Stem erect, many-flowered: leaves lanceolate, toothed; peduncles downy.
Pennsylvania. *Leaves* pointed, small, naked.
- racemosum.* Stem erect, nearly simple: leaves oblong, pointed, toothed; the lower-teeth elongated: raceme terminal.
Hungary. *Willd.* 3. p. 1588. Raceme simple.
- foliosum.* Stem erect, simple: leaves ovate, hearted, clasping, denticulate, ciliate: flowers panicled: calyx glabrous.
Hungary. *Willd.* 3. p. 1589. Stem villous at the base,
- * *sabaudum* Stem erect, simple: leaves ovate-oblong, hairy underneath, acute, sessile, nearly clasping, toothed: flowers corymbd.
Groves. *Eng. Bot.* t. 349. *Flor. Dan.* t. 872.
- * *prenan-
thoides.* Stem erect, simple: leaves lanceolate, hearted, clasping, denticulate, pubescent, glaucous underneath: flowers in racemed corymbs.
Scotland. *Allion. Pedem.* tab. 27. fig. 1, 3.
- lævigatum.* Stem erect, branched: leaves oblong-lanceolate, glabrous, petioled, deeply toothed in the middle: flowers panicled: base of the calyx and peduncles pubescent.
— *Willd. hort. berol.* tab. 16.
- lanceolatum.* Stem erect, simple: leaves oblong-lanceolate toothed, hairy, sessile: flowers somewhat corymbd.
Dauphiny. *Vill. Delph.* 3. t. 30. Stem 1 or few flowered.
- fruticosum.* Stem branched, shrubby: leaves oblong, toothed, petioled: peduncles somewhat corymbd: calyx downy.
Madeira. *Willd.* 3. p. 1591. Shrub diffuse.

* *umbellatum*. Stem erect, simple: leaves linear, slightly toothed: flowers in corymb-like umbels.

Groves. *Curt Lond. fasc.* 6. t. 58. *Flor. Dan.* t. 680.

1446. CREPIS. *Receptacle* naked, roughish: *calyx* invested with deciduous scales: *down* simple, mostly pedicelled. *Hawk's-beard*.

burssifolia. Leaves pinnatifid, crenate: scapes naked, few-flowered. Sicily. *Bocc. Mus.* 2. p. 147. *tab.* 106, 112.

nemausensis. Leaves runcinate-lyrate, obtuse, toothed: scape naked, many-flowered, bristly: scales of the calyx membranaceous at the edge. France, Italy. *All. Ped.* t. 75. f. 1. *Vill. Delph.* 3. t. 26.

leontodon-toides. Leaves runcinate, toothed, glabrous: scape naked, many-flowered, ascending; calyx downy, with the outer-scales appressed. Piedmont. *Allion. Aust. fl. Ped.* p. 13. Scape glabrous.

taraxacifolia. Leaves runcinate-pinnatifid, toothed, bristly: scapes ascending, leafy at the base, many-flowered: calyx downy, with outer-scales appressed. Barbary. *Desfont. Atl.* 2. p. 231.

apargioides. Leaves lance-obovate, toothed, glabrous; those of the stem linear-lanceolate: stem angular, rough below: peduncles and calyx bristly. Austria. *Jacq. Austr.* 3. t. 293. *Hieracium*.

vesicaria. Leaves ovate-oblong, runcinate-toothed, hairy: stem grooved at the base: flowers corymboid: bractes and outer-scales of the calyx membranaceous and scarious. Crete. Outer scales of the calyx ovate, spreading.

scariosa. Leaves lanceolate, runcinate, hairy: stem leafy: flowers corymboid: outer-scales of the calyx membranaceous, scarious, as long as the calyx. Apulia. *Colum. ceph.* 1. t. 237. *Cichorium*.

taurinenfis. Leaves rough; radical-ones lyre-runcinate; those of the stem lanceolate, clasping, toothed at the base: calyx somewhat downy, the outer-scales membranaceous at the margin.

Tauria. *Willd.* 3. p. 1595. Bractes not scarious.

- alpina*. Leaves ovate, heart-arrow-shaped, clasping, toothed; peduncles long, 1-flowered: calyx bristly, the outer-scales membranaceous and scarious.
Italy, Siberia. *Gmel. Sib. 2 p. 16 tab. 5.*
- albida*. Leaves hoary-rough; radical-ones runcinate-toothed; those of the stem oblong-lanceolate, somewhat clasping, slightly toothed: scales of the calyx membranaceous and ciliate on the margin.
France, Italy, *Jacq. ic. rar. 1. t. 164. All. Ped. t. 32 f. 3.*
- rigida*. Leaves rigid, rough, toothed: radical-ones obovate; those of the stem arrow-shaped, clasping; flowers in racemed panicles: calyx pubescent.
Hungary. *Waldst. Kitab. pl. rar. Haug. 1. tab. 19.*
- virens*. Leaves bristly, ovate-oblong, sharply and deeply serrate doubly: scape naked corymbed: calyx cylindrical, glabrous: down sessile.
Azores. *Aiton. Kew. 3. p. 127.*
- rubra*. Root leaves runcinate-lyrate; stem-leaves clasping, lanceolate, the lower ones pinnatifid: calyx bristly, the outer-scales scarious.
Apulia. *Down on a pedicel.*
- *fætida*. Leaves runcinate-pinnatifid, rough, sessile; the upper-ones lanceolate, toothed: calyx ovate, hairy angular.
Pastures. *Engl. Bot. t. 406. Moris sect. 7. t. 4. f. 4.*
- sprengeri-ana*. Plant bristly: leaves oblong, clasping, remotely toothed: stem divaricate, branched: outer-scales of the calyx unequal, spreading.
Portugal. *Moris sect. 7 t. 5 f. 17. Hieracium. Sp. pl. 1130.*
- aspera*. Leaves clasping; lower-ones oblong, toothed; upper-ones cut-toothed: stem bristly: calyx in fruit angular, muricate, the outer-scales membranaceous ovate and deciduous.
Sicily, Palestine, *Stem with strong stiff bristles.*
- lappacea*. Leaves sessile, bristly, oblong, sinuate-toothed: stem bristly: branches 1 flowered: peduncles thickened: calyx in fruit angular; the outer-scales linear, with stiff bristles.
— *Willd. 3. p. 1599. Bristles of the calyx not clavate.*
- rhagadioloides*. Leaves clasping, somewhat arrow-shaped, lanceolate, with recurved teeth: branches simple, alternate: calyx in fruit ovate, angular, with clavate bristles.
Spain. *Jacq. hort. Schænb. 2. p. 9. tab. 144.*

virgata. Leaves lanceolate, denticulate, slightly pubescent: upper-ones linear, nearly entire, sessile: stem wand-like: calyx downy.

Barbary. *Desfont. Aët. Soc. hist. nat. Par. 1. p. 37. tab. 8.*

hieracioides. Leaves glabrous, toothed; radical-ones ovate-spatulate; those of the stem oblong, sessile: corymb terminal: calyx glandular-bristly.

Hungary. *Walst. Kitaib. pl. rar. Hung. 1. tab. 70.*

hispida. Plant bristly: leaves runcinate, auricled at the base; upper-ones lanceolate, arrow-halbert-shaped, pinnatifid at the base: calyx very bristly.

Hungary. *Walst. Kitaib. pl. rar. Hung. 1. tab. 43.*

tectorum. Leaves nearly glabrous, lanceolate and runcinate; upper-ones lanceolate, clasping, toothed: flowers corymbed: calyx pubescent: stem glabrous.

Pastures. *Engl. Bot. t. 1111. Curt. Lond. fars. 5. t. 55.*

agrestis. Root-leaves lance-runcinate; stem-leaves lanceolate, toothed and arrow-shaped at the base: flowers in corymbed panicles: calyx and stem hairy.

Hungary. *Willd. 3. p. 1602.*

biennis. Leaves bristly, runcinate-pinnatifid; upper-ones sessile, lanceolate, toothed, bristly on the keel: calyx pubescent, muricate.

Pastures. *Engl. Bot. t. 149. Pet. H. Brit. t. 12 f. 10.*

scabra. Leaves runcinate, bristly; those of the stem sessile: flowers corymbed: calyx downy, the outer-scales appressed.

France. *Willd. 3. p. 1603.* Lobes of the leaves obtuse.

pinnatifida. Leaves glabrous, sessile, lanceolate, pectinate-pinnatifid, entire at the top: stem erect, branched; calyx pubescent.

Germany, Italy. *Willd. sp. pl. 3. p. 1604.*

spirens. Leaves glabrous; lower ones remotely toothed: upper-ones nearly entire and somewhat arrow-shaped: stem branched at the base, diffuse: calyx pubescent.

France. Switzerland. *Root-leaves* obtuse.

Dioscoridis. Root-leaves lyre-runcinate; stem-leaves halbert-shaped, lanceolate, the lower-ones toothed: stem erect, with divaricate branches: calyx downy, when in fruit roundish-ovate and angular.

France, Siberia. *Leaves* nearly glabrous.

macrophylla Lower-leaves ovate-oblong, hairy, unequally toothed; down simple, on a pedicle.

Algebra. *Desfont. Atl.* 2. p. 231. Outer-calyx glabrous.

coronopifolia Leaves pinnatifid, with linear segments; radical-ones toothed, those of the stem entire: stem paniced: calyx downy, the outer-scales appressed.

Canaries. *Desfont. Atl. Soc. hist. nat. Par.* 1. p. 38. t. 9.

tenuifolia. Leaves pinnate, with filiform leaflets; radical-ones toothed: stem paniced: calyx pubescent, the outer-scales reflected.

Tauria. *Willd.* 3. p. 1606. Upper-leaves filiform.

1447. HELMINTIA. *Receptacle* naked: *calyx* double; the inner 8-leaved, equal; outer 5-leaved, as long as the inner: *seeds* transversely striate: *down* feathery, on a pedicel.

**echioides*. HELMINTIA.

Pieris echioides. *Engl. Bot.* t. 1972. *Smith. Sp. pl.*

Hedges. *Curt. Lond. fasc.* 3. t. 51.

Leaves and calyx fringed with strong prickles.

1448. TOPLIS. *Receptacle* cellular: *calyx* invested with subulate scales longer than the calyx; *down* of the margin a toothed membrane, of the centre 2 or 4 awns.

barbata. Toplis.

South of France. *Curt. Magaz.* t. 35. *Sp. pl.* Crepis.

Leaves lanceolate, glabrous: *flowers* yellow with a purple base: *involucre* long, setaceous.

1449. ANDRYALA. *Receptacle* villous: *calyx* many-parted, nearly equal, rounded: *down* simple, sessile.

cheiranthifolia. Leaves glandular-downy; lower-ones runcinate-toothed; upper-ones ovate-lanceolate, very entire: stem and peduncles glandular-villous.

Madeira. *L'Herit. stirp.* t. 18. *Scop. insub.* 2. t. 6.

pinnatifida. Leaves downy, pinnatifid; calyx downy, clothed with rigid hairs.

Madeira. *Ait. Kew.* 3. p. 129. Leaflets entire or toothed.

crithmifolia Leaves pinnate, linear, downy.

Madeira. *Aiton. kew.* 3. p. 129.

nigricans. Leaves pinnatifid-lyrate: flowers corymbed, clustered: peduncles and calyx villous and viscid.

Barbary. *Desfont. Atl.* 2. p. 236.

ragulina. Leaves downy, oblong; the lower-ones toothed: stem branched; the branches 1-flowered.

Archipelago. *Mill. fig. t.* 146. f. 2. Hieracium.

lanata. Leaves ovate, woolly; the lower-ones slightly toothed; corymb terminal: peduncles 1 or 2-flowered.

South of Europe. *Mill. fig. t.* 146. f. 1. Hieracium.

1450. ROTHIA. *Receptacle* villous, with the margin chaffy: *calyx* of many equal leaves: *down* of the centre simple and sessile, of the ray none.

andryaloides Stem branched at the base, diffuse: leaves downy, ovate-lanceolate, nearly entire, clasping.

Spain. *Gartn. fem.* 2. p. 371. tab. 174.

cheiranthifolia. Stem erect, corymbed: leaves slightly downy, lanceolate, sinuate-toothed, sessile; upper-ones entire.

South of France, Spain. *A. sinuata. Sp. pl.* 1137.

runcinata: Stem erect, corymbed: leaves downy, sessile: lower-ones oblong, runcinate; upper-ones lanceolate, slightly toothed: peduncles glandular-villous.

South of Europe. *Uppermost leaves* very entire.

1451. HYOSERIS. *Receptacle* naked: *calyx* invested with scales: *down* double; the outer capillary, inner of chaffy awns.

A. Stemless.

radiata. Scape 1-flowered, naked: leaves glabrous, lyre-runcinate, toothed, with the terminal lobe 3-left.

Spain. Barbary. *Pluk alm.* 130. tab. 27. f. 2.

Peduncle and rib of the *leaves* farinaceous.

lucida. Scapes 1-flowered, naked: leaves glabrous, somewhat fleshy, lyre-runcinate, with angular and somewhat imbricate segments.

Levant. *Jacq. hort.* 1. 150. Leaves lucid.

- scabra.* Scapes 1-flowered, naked, thickened at top: leaves lyrepinnatifid, toothed, ciliate, roughish.
Sicily, Barbary. *Bocc. Mus. t.* 106. *Hieracium.*
- bispida.* Scapes 1-flowered, bristly: leaves oblong, runcinate-toothed, bristly: hairs forked.
Morocco. *Willd.* 3 p. 1614. Down somewhat feathery.
- pygmaea.* Scapes 1-flowered: leaves spatulate, toothed, ciliate: calyx hairy: hairs of the fringe forked: down feathery, on a pedicel.
Madeira. *Aiton. kew.* 3 p. 103.

B. *Caulescent.*

- birta.* Stem naked at the base: flowers somewhat umbelled: leaves pinnatifid, toothed.
— *Willd.* 3. p. 1614. Calyx mealy; down pedicelled.
- arenaria.* Stem branched; leafy, diffuse: leaves clasping, oblong, toothed, rough, ciliate on the margin: peduncles thickened at top.
Morocco. *Willd.* 3. p. 1615. Calyx glabrous.
- prenanthoides.* Stem erect, bifid, leafy: leaves glabrous; radical-ones somewhat-lyrate; those of the stem clasping, lanceolate, very entire.
North America. *Tragopogon virginicum.* *Sp. pl.*
Plant glabrous: calyx 12-leaved, not calyced.

1452. HEDYPNOIS. *Receptacle* naked: calyx invested with scales: down of the centre double, the outer of many obsolete bristles, inner of 5-chaffy leaves; of the ray a membranaceous denticulate margin.

- monspeliensis.* Stem diffuse, branched: leaves oblong, toothed, tapering to the base, sessile: scales of the calyx glabrous when in fruit.
South of Europe. *Hyoseris Hedypnois.* *Sp. pl.* 1138.
- mauritania.* Stem erect, branched: leaves oblong, slightly toothed, somewhat hearted, clasping: scales of the calyx in fruit alternate, a little bristly at top.
Mauritania? *Willd.* 3 p. 1616. Stem glabrous.
- rhagadioides.* Stem diffuse, branched: leaves oblong, toothed, tapering to the base, sessile: scales of the calyx in fruit hairy.
South of Europe. *Cavan. ic.* 1. t. 43. *Hyoseris.*

- cretica*. Stem diffuse, branched: leaves oblong, toothed, somewhat hearted, clasping: scales of the calyx in fruit glabrous, muricate with bristles at top.
Crete. *Hort. Ups.* 246. *Lapfana*.
- pendula*. Stem erect, panicled: leaves oblong, bristly, deeply toothed: scales of the calyx in fruit glabrous, muricate with bristles at top.
— *Willd.* 3. p. 1618. Plant bristly.
1453. KRIGIA. *Receptacle* naked: *calyx* many-leaved, simple: *seeds* crowned with a 5-leaved membrane alternating with as many bristles.
- virginica*. Krigia.
Virginia. *Hyoseris virginica*. *Sp. pl.* 1138.
Scapes 1-flowered: *leaves* lyrate, lanceolate, glabrous.
1454. SERIOLA. *Receptacle* chaffy: *calyx* simple: *down* nearly simple.
- lavigata*. Nearly smooth: leaves obovate, toothed.
Barbary. *Desfont. Atl.* 2. p. 237. *tab.* 216.
- athnensis*. Bristly: leaves obovate, slightly toothed.
Italy, Barbary. *Jacq. obs.* 4. p. 3. *tab.* 79.
- cretensis*. Hairy, with runcinate leaves.
Crete. *Sp. pl.* 1139.
- urens*. Stinging: stem branched: leaves toothed.
Sicily. *Calyx* rough with pungent spines.
1455. HYPOCHÆRIS. *Receptacle* chaffy: *calyx* somewhat imbricate: *down* feathery. *Cat's ear*.
- helvetica*. Stem simple, leafy, 1-flowered: leaves lanceolate, toothed.
Alps. *Jacq. ic.* 1. t. 163. *Allion. Ped. tab.* 32. f. 1.
- * *maculata*. Stem solitary, nearly naked and simple: leaves ovate-oblong, undivided, toothed.
High pastures. *Engl. Bot. t.* 225. *Fl. Dan. t.* 149.
- minima*. Leaves toothed, roughish: *calyx* bristly: *down* of the centre pedicelled, feathery; of the margin sessile, bristly, feathery at the base.
Barbary. *Desfont. Atl.* 2. p. 238.
- * *glabra*. Nearly glabrous: *calyx* oblong, imbricate: stems branched, almost naked: leaves toothed and sinuate.
Fields. *Engl. Bot. t.* 575. *Curt Lond. fasc.* 3. t. 53.

* *radicata*. Leaves runcinate, obtuse, rough: stems branched, naked, smooth: peduncles scaly.

Pastures. *Engl. Bot. t. 831. Curt. Lond. fasc. 3. t. 52.*

1456. LAPSANA. *Receptacle* naked: *calyx* invested with scales; the inner-leaflets equal and channelled: *down* 0. *Nipple-wort.*

fætida. Stemless: scape 1-flowered: leaves runcinate-pinnatifid, with the terminal lobe rhombic.

Hyoseris fætida. Sp. pl. 1137.

Alps. *Waldst. Kitaib. pl. Hung. t. 49. Hyoseris.*

* *minima*. Stemless: scape 3 or 4-flowered: peduncles hollow, thickened at top: leaves obovate-oblong, toothed.

Hyoseris minima. Sp. pl. 1138. Flor. Brit. 839.

Dry fields. *Engl. Bot. t. 95. Flor. Dan. t. 201.*

virgata. Cauliscent: root-leaves runcinate; stem-leaves lanceolate, toothed, clasping.

Barbary. *Desfont. Atl. 2. p. 235. tab. 215.*

* *communis*. Cauliscent, branched: leaves ovate, petioled, with angular teeth.

Waldes. *Engl. Bot. t. 844. Curt. Lond. fasc. 1. t. 59.*

crispa. Cauliscent, branched: leaves ovate, petioled, doubly toothed, curled at the margin.

— *Willd. 3. p. 1624. Leaves closely toothed.*

1457. ZACINTHA. *Receptacle* naked: *seeds* of the margin incurved, of the centre straight: *down* very short, somewhat feathery: *calyx* invested with membranaceous scales.

verrucosa. *Zacinta.*

Italy, Levant. *Gærtn. sem. 2. t. 145. f. 7.*

Root-leaves lyrate, acute; stem-leaves arrow-shaped, clasping, toothed: *calyx* swelling.

1458. RHAGADIOLUS. *Receptacle* naked: *seeds* bowed, spreading: *down* 0: *calyx* invested with scales.

stellatus. Seeds smooth, spreading: stem-leaves lanceolate undivided. Montpellier. *Leaves* sinuate or toothed.

edulis. Seeds smooth, spreading, leaves lyrate.

Lapsana Rhagadiolus. Sp. pl. 1141. Hort. Ups. 245.

Levant. *Leaves* with acute segments.

Koelpinia. Seeds prickly, spreading: leaves linear-lanceolate, very entire.

Siberia, Levant. *Pall. it.* 3. p. 755. *tab. L. l. f.* 2.

1459. **TRIPTILION**. *Receptacle* villous: *down* awned, the awns feathery at top: *calyx* imbricate.

laciniatum. **Triptilion**.

Peru, Chili. *Ruiz. et. Pavon prodr. Per.* p. 102. *t.* 22.

Stem panicled: *leaves* pinnatifid, with mucronate teeth, rigid, glabrous above: *flowers* white.

1460. **CATANANCHE**. *Receptacle* chaffy: *calyx* imbricate, scarious: *down* of 5 awned chaffy leaves.

ærulea.

Lower-scales of the *calyx* ovate, mucronate: leaves villous, linear, somewhat pinnatifid at the base.

South of France, Barbary. *Curt. Magaz.* t. 293.

æspitosa.

Lower-scales of the *calyx* ovate, acute: leaves linear, somewhat fleshy, slightly toothed at top.

Barbary. *Desfont. Atl.* 2. t. 217. *Flowers* yellow.

lutea.

Lower-scales of the *calyx* lanceolate: leaves lanceolate, toothed, 3-nerved.

Crete. *Bocc. Mus.* 2. p. 21. *tab.* 7. Chondrilla.

1461. **CICHORIUM**. *Receptacle* somewhat chaffy: *calyx* invested with scales: *seeds* crowned with numerous short teeth. *Succory*.

* *Intybus*.

Flowers in pairs, axillary, nearly sessile: leaves runcinate. *Waites. Engl. Bot.* t. 539. *Curt. Lond. fasc.* 4. t. 56.

pumilum.

Flowers in pairs, axillary, sessile: leaves obovate, toothed. — *Jacq. obs.* 4. t. 80. Upper leaves lanceolate,

Endivia.

Peduncles in pairs, axillary; one of them long and single-flowered; the other very short and 3 or 4-flowered: flowers in heads: leaves oblong, denticulate: branches flexuous. *Endive*.

East Indies. *Park. Theat.* 774. *f.* 1.

divaricatum.

Peduncles in pairs, axillary; one long and single-flowered; the other very short and 1 or 2-flowered: stem forked: root-leaves runcinate; stem-leaves oblong, toothed.

Morocco. *Willd.* 3. p. 1629. Stem not flexuous.

spinosum.

Flowers single, axillary: stem forked: branches naked, spinose: leaves lanceolate, runcinate-toothed.

Crete, Sicily. *Bauh. prodr. tab.* 62:

1462. **SCOLYMUS**. *Receptacle* chaffy: *calyx* imbricate, spinous: *down* o. *Golden thistle*.
- maculatus*. Flowers solitary: leaves roughish, smooth underneath: stem winged, toothed.
France, Italy, Barbary. *Lob. ic.* 2. 6.
- hispanicus*. Flowers somewhat clustered: leaves rough, with the midrib hairy underneath, interruptedly decurrent.
Italy, Barbary. *Mill fig. tab.* 229.
- grandiflorus*. Flowers solitary, lateral, sessile: leaves decurrent: stem nearly simple, villous, erect.
Barbary. *Desfont. Atl.* 2. p. 240. *tab.* 218.
1463. **ARCTIUM**. *Receptacle* chaffy: *calyx* globular, the scales ending in an incurved hook: *seeds* crowned with chaffy bristles. *Burdock*.
- * *Lappa*. Stem-leaves heart-shaped, petioled, denticulate: *calyx* smooth.
Wastes. *Engl. Bot. t.* 1228. *Curt. Lond. fasc.* 4. f. 55.
- Bardana*. Stem-leaves heart-shaped, petioled, very entire: *calyx* downy.
Europe. Probably a variety of the last.
1464. **VERNONIA**. *Receptacle* naked: *calyx* ovate, imbricate: *down* double; the outer chaffy, inner capillary.
- norveboracensis*. Leaves lanceolate, rough, slightly ferrate: corymb flat-topped: scales of the *calyx* filiform at top.
New York, *Dill. Elth. t.* 263. f. 342. *Serratula*.
- præaltia*. Leaves ovate-lanceolate, ferrate, pubescent underneath: corymb flat topped: scales of the *calyx* ovate, pointed.
Carolina. *Mill. fig. t.* 234. *Serratula*. *Sp. pl.* 1146.
Receptacle naked: *leaves* glaucous beneath.
- glaucia*. Leaves oblong, pointed, ferrate: corymb flat-topped: scales of the *calyx* ovate, acute.
Virginia. *Dill. Elth. t.* 262. f. 341. *Serratula*.
- anthelminthica*. Leaves ovate-lanceolate, tapering to both ends, ferrate, roughish, pubescent underneath: flowers terminal, 2 or 3 together.
East Indies. *Rhed. Mal.* 2. t. 24. *Burm. Zeyl.* t. 95.
1465. **LIATRIS**. *Receptacle* naked: *calyx* oblong, imbricate: *down* feathery, coloured.

- aquarrosa*. Leaves linear, very entire and rough: peduncles 1-flowered, axillary: scales of the calyx lanceolate, rigid, spreading.
Virginia. *Moris. hist. 3. sect. 7. t. 27. f. 10.* Stœbe.
- scariosa*. Leaves lanceolate, very entire, tapering to both ends, rough on the margin: raceme terminal, leafy: scales of the calyx obovate, spreading every way.
Virginia. *Pluk. alm. t. 177. f. 4.* *Serratula. Sp. pl.*
- elegans*. Leaves linear, very entire, dotted: peduncles axillary-1-flowered, with bractes: scales of the calyx lanceolate, hairy: stem villous.
Carolina. *Calyx* red at top.
- pilosa*. Leaves linear, hairy: flowers axillary, on long peduncles.
North America. *Ait. kew. 3. p. 138.* *Serratula.*
- graminifolia*. Leaves linear, very entire, glabrous, with the midrib somewhat hairy internally: raceme terminal: scales of the calyx oblong, obtuse, mucronate.
Carolina. *Willd. 3. p. 1636.* *Calyx* ciliate.
- spicata*. Leaves linear, very entire, glabrous, ciliate at the base, nerved and dotted: flowers spiked: scales of the calyx linear, obtuse.
Virginia. *Dill. Elth. t. 72. f. 83.* *Serratula. Sp. pl.*
- paniculata*. Leaves lance-oblong, nerved, very entire, glabrous: stem simple, viscid-hairy: panicle close: scales of the calyx lanceolate, obtuse.
Carolina. *Willd. 3. p. 1637.* Upper-leaves hairy.
- odoratissima*. Leaves oblong, very entire, glabrous; those of the stem clasping: stem simple, glabrous: panicle corymbed, divaricate: scales of the calyx lanceolate, obtuse.
Carolina. *Willd. 3. p. 1637.* Flowers purple.
1466. SERRATALA. *Receptacle* chaffy or villous: *calyx* imbricate, cylindrical, unarmed: *down* feathery or toothed. *Saw-wort.*
- tinctoria*. Leaves closely ferrate, somewhat pinnatifid at the base: flowers in a flat-topped corymb.
Hedges. *Engl. Bot. t. 38. Flor. Dan. t. 281.*
- coronata*. Leaves ferrate, unevenly-pinnate in about 5 pair; the segments confluent: peduncles 1-flowered: flowers radiate.
Siberia, Italy. *Gmel, Sib. 2. t. 20.* *Carduus.*

- quinquefolia* Leaves ferrate, unevenly pinnate in about 2 pair; the segments confluent: peduncles 1-flowered; inner-scales of the calyx elongated and coloured.
Persia. Willd. 3 p. 1639. Calyx glabrous.
- humilis.* Leaves pinnatifid, downy underneath, with linear very entire segments: stem 1-flowered: calyx hoary-downy, lax.
Barbary. Desfont. Atl. 2. t. 220. Calyx downy.
- mollis.* Leaves pinnatifid, downy underneath, with oblong obtuse very entire segments: stem 1-flowered: scales of the calyx pubescent, appressed.
Spain. Cavan. ic. 1. t. 90. f. 1. Stem simple.
- pygmaea.* Leaves linear-lanceolate, hairy, revolute at the edge: stem 1-flowered, villous: scales of the calyx ovate-lanceolate, appressed.
Alps. Jacq. Aust. t. 440. Cnicus. Sp. pl. 1156.
- alpina.* Leaves villous underneath, toothed; radical-ones ovate-lanceolate: flowers terminal, somewhat umbelled.
Alpine rocks. Engl. Bot. tab. 599. Lightf. Scot. t. 19.
- discolor.* Leaves downy underneath, toothed; radical-ones ovate, somewhat hearted; stem-leaves ovate-lanceolate: flowers terminal, somewhat umbelled.
Alps. Gmel. Sib. 2. t. 26. Hall. Helv. t. 6. Cirsium.
- angustifolia.* Leaves linear, very entire, hairy: flowers terminal, corymbed.
Siberia. Gmel. Sib. 2. p. 78. tab. 33. Cirsium.
- indica.* Leaves linear-lanceolate, ferrate, roughish: stem panicled: corymbs flat-topped.
East Indies. Willd. 3. p. 1642. Upper-leaves entire.
- multiflora.* Leaves lanceolate, villous underneath, somewhat decurrent, very entire: stem corymbed: calyx cylindrical.
Siberia. Gmel. Sib. 2. p. 71. tab. 38. Cirsium.
- caspica.* Leaves lanceolate, very entire, obtuse, somewhat fleshy, glabrous: stem corymbed.
Near the Caspian Sea. Pall. it. 2. app. n. 121. t. L.
- mucronata.* Leaves oblong-lanceolate, very entire, glabrous: stem about 3-flowered: calyx squarrous.
Barbary. Desfont. Atl. 2. p. 243. tab. 219.
- amara.* Leaves lanceolate, rough on the margin; the lower-ones toothed at the base; upper-ones very entire, decurrent: flowers corymbed.
Siberia. Gmel. Sib. 2. p. 72. t. 79.

centaurioides Leaves pinnatifid, oblique, acute, glabrous, unarmed: scales of the calyx mucronate; the inner-ones scarious.

Siberia. *Gmel. Sib. 2. p. 44. tab. 17.*

japonica. Leaves lyre-pinnatifid, rough, scales of the calyx dilated and membranaceous at the tip.

Japan. *Thonb. Jap. 305.* Plant rough.

ciliata. Leaves sessile, lanceolate, undivided, ciliate with spines, downy underneath.

Egypt. *Vahl. Symb. 1. p. 67.* Calyx glabrous

fetosa. Leaves oblong, glabrous, ferrulate, fringed with bristles, obtuse, mucronate, stem corymbed.

Silesia. *Willd. 3 p. 1645.* Calyx pubescent.

1467. **CARDUUS.** Calyx imbricate, swelling, with spinous scales: down capillary or rough: receptacle villous. *Thistle.*

A. *Leaves decurrent.*

leucophagus. Leaves decurrent, toothed, spinous: peduncles naked, very long, 1-flowered: calyx spinous, inclined.

France. *Leaves spotted.*

peregrinus. Leaves decurrent, sinuate, spinous, downy underneath: peduncles nearly leafless, downy, many-flowered: calyx spinous, deciduous.

— *Willd. 3. p. 1647.* Flowers red.

arabicus. Leaves oblong, decurrent, sinuate, spinous, with white veins, villous underneath: flowers sessile, somewhat clustered: calyx cylindrical.

Arabia? *Jacq. ic. 1. t. 166.* Calyx spinous.

lanuginosus. Leaves decurrent, lanceolate, pinnatifid, toothed, spinous white-downy both sides: flowers terminal, solitary, sessile.

Armenia. *Willd. 3. p. 1648.* Plant snowy-downy.

macrocephalus. Stem downy: leaves semidecurrent: flowers drooping: scales of the calyx ovate-lanceolate, woolly, their upper part spreading.

Barbary. *Desfont. Atl. 2. p. 245.*

* *nutans*. Leaves semidecurrent, spinous: flowers drooping: scales of the calyx lanceolate, spreading at the upper-part.

Wastes. *Engl. Bot. t. 1112. Flor. Dan. t. 675.*

- carlinoides*. Leaves decurrent, pinnatifid, downy, with palmate spinous segments : flowers glomerate.
Pyrenees. *Gouan. illustr.* 62. tab. 23.
- carlinæfolius*. Leaves decurrent, spinous, glabrous : peduncle erect, 1-flowered, unarmed.
Pyrenees. *Vahl. symb.* 1. p. 67. Stem glabrous.
- * *acanthoides*. Leaves decurrent, sinuate and spinous : calyx globular, slightly peduncled, with linear recurved scales.
Walters. *Engl. Bot.* t. 973. *Curt. Lond. fasc.* 6. t. 54.
- hamulosus*. Leaves decurrent, lanceolate, pinnatifid-toothed, spinous, villous underneath : peduncles 1-flowered, downy : scales of the calyx subulate, spinous ; the inner-ones recurved.
Hungary. *Willd.* 3. p. 1630. Leaves green above.
- candicans*. Leaves femidecurrent, lanceolate, pinnatifid, spinous, downy underneath : peduncles scaly, downy : calyx ovate, with subulate strait scales.
Hungary. *Waldst. Kitaib. pl. Hung.* 1. tab. 83.
- Personata*. Stem-leaves femidecurrent, oblong, undivided, with spinous teeth, a little villous underneath ; the radical-ones pinnatifid at the base : flowers nearly sessile, clustered : scales of the calyx recurved.
Alps. *Jacq. Austr.* t. 348. *Arctium. Sp. pl.* 1144.
- crispus*. Leaves decurrent, oblong, sinuate, spinous on the margin, woolly underneath : flowers peduncled, aggregate, terminal : scales of the calyx linear-subulate, mucronate, spreading.
Europe. *Flor. Dan.* t. 621. Stem green.
- * *tenuifolius*. Leaves decurrent, sinuate, spinous, downy underneath : calyx nearly cylindrical, aggregate, sessile, with lanceolate nearly erect scales.
Walters. *Engl. Bot.* t. 412. *Curt. Lond. fasc.* 6. t. 55.
- polyanthemus*. Leaves decurrent, sinuate, ciliate, naked underneath : flowers clustered, peduncled.
Rome. *Triumf. obs. tab.* 103. Spines soft.
- paniculatus*. Leaves femidecurrent, tooth-sinuate, spinous, glabrous : flowers panicled.
Pyrenees. *Vahl. symb.* 1. p. 68. Calyx ovate.
- pycnocephalus*. Leaves decurrent, pinnatifid-sinuate, pubescent, spinous : peduncles naked, downy : calyx deciduous.
South of Europe. *Jacq. hort.* t. 44. *Triumf. obs.* t. 101

argentatus. Leaves decurrent, runcinate, spinous: peduncles somewhat downy, 1-flowered: calyx ovate, mucronate, unarmed.

Egypt. *Jacq. hort. t. 192*. Calyx deciduous.

cyanooides. Leaves downy underneath; upper-ones very finely decurrent, linear: stem 1-flowered: scales of the calyx lanceolate, mucronate, spreading.

Saxony, Siberia. *Gmel. Sib. 2. p. 42. tab. 15*.

polyclonus. Leaves downy underneath; upper-ones very thinly decurrent, linear, much dilated at the base; lower-ones pinnatifid, linear: stem many-flowered; scales of the calyx spreading.

Siberia. *Gmel. Sib. 2. p. 44. tab. 16*.

pectinatus. Leaves decurrent, lanceolate, pinnatifid in a pectinate manner; peduncles very long: flowers drooping after blooming.

— Scales of the calyx linear, spreading.

arctioides. Leaves decurrent, deeply pinnatifid, the segments toothed upwards and spinous at top, with setaceous fringe on the margin: scales of the calyx lance-subulate, coloured at top and incurved.

Alps. *Scop. carn. n. 997. tab. 53*. *Cirsium*.

alpestris. Leaves semidecurrent, pinnatifid, pointed, the segments 2-lobed and ciliate with spines: peduncles downy: scales of the calyx linear-subulate, spreading.

Alps. *Waldst. Kitzb. pl. rar. Hung.*

desloratus. Leaves semidecurrent, pinnatifid, ferrate, ciliate, naked; radical-ones undivided: peduncles very long, 1-flowered, woolly.

Germany, Austria. *Jacq. Austr. t. 89*. Fruit erect.

feminudus. Leaves semidecurrent, lanceolate, ferrate with spines, hoary underneath: peduncle very long, 1-flowered, woolly.

Persia. *Willd. 3. p. 1657*. Calyx spreading.

pannonicus. Leaves semidecurrent, lanceolate, very entire, ciliate: peduncle very long, 1-flowered, woolly.

Austria. *Jacq. Austr. 3. tab. 5*. All the spines soft.

parviflorus. Leaves united at the base, lanceolate, naked, jagged, ciliate with soft spines.

South of Europe. Calyx with a white keel.

B. *Leaves sessile.*

- radiatus*. Leaves pectinate-pinnatifid, naked; rough: segments linear; unarmed, the terminal-one ovate; upper-leaves sessile: scales of the calyx ovate, mucronate; the inner-ones long, linear, differently coloured.
Hungary. *Waldst. Kitaib. pl. rar. Hung.* 1. tab. 11.
- lycopifolius*. Leaves ovate, pinnatifid-toothed, unarmed, hoary underneath; upper-ones sessile: stem 1-flowered; scales of the calyx ovate, unarmed.
Dauphiny. *Vill. Delph.* 3. p. 23. tab. 19.
- virginianus*. Leaves sessile, downy underneath, lanceolate, with remote spinous teeth: stem 1-flowered: scales of the calyx leafy, bent back, ferrate with spines at the base.
Virginia. *Jacq. obs. bot.* 4. p. 13. tab. 99.
- * *marianus*. Leaves clasping, repand, spinous; radical-ones pinnatifid: scales of the calyx leafy, bent back, ferrate with spines at the base.
Walters. *Engl. Bot. t.* 976. *Curt. Lond. fasc.* 3. t. 54.
- nitidus*. Leaves unarmed; radical-ones ovate, toothed, a little cut at the base; stem-leaves sessile, pinnatifid, linear: stem 1-flowered: scales of the calyx ovate, mucronate.
Hungary. *Waldst. Kitaib. pl. rar. Hung.* 1. tab. 52.
- cerinthoides*. Leaves naked: radical-ones oblong, very entire; stem-leaves lanceolate, slightly toothed: stem 1-flowered: scales of the calyx ovate, mucronate, sphacelate at the margin.
South of Europe. *Cavan. ic.* 3. t. 226. C. *glaucus*.
- leucanthus*. Leaves oblong-lanceolate, sessile, ferrate, unarmed, glabrous: stem 1-flowered: scales of the calyx ovate, with reflected sharp points.
Spain. *Cavan. ic.* 2. p. 52. tab. 165.
- linearis*. Leaves sessile, linear, ciliate with spines, glabrous: flowers terminal, solitary.
Japan. *Thunb. Jap.* 305. Calyx glabrous at top.
- mollis*. Leaves pinnatifid, linear, revolute at the margin, downy underneath: stem nearly naked, 1-flowered: scales of the calyx downy, ovate-lanceolate, spreading every way.
Alps. *Jacq. Austr. t.* 18. Stem downy.

1468. CNICUS. *Calyx* imbricate, swelling, with spinous scales: *down* feathery: *receptacle* villous.

A. *Leaves decurrent.*

* *palustris*. Leaves decurrent, naked, spinous; the lower-ones pinnatifid: flowers clustered: scales of the calyx ovate-lanceolate, mucronate, appressed.

Maithes. *Engl. Bot.* t. 974. *Curt. Lond. fasc.* 6. t. 56.

pungens. Leaves decurrent, woolly underneath, spinous, pinnatifid: flowers clustered: scales of the calyx ovate, with spreading spines.

Armenia. *Willd.* 3. p. 1663. Calyx appressed.

arenarius. Leaves decurrent, woolly, lanceolate, toothed, curled, spinous: flowers clustered: scales of the calyx lance-subulate, pungent, reflected.

Barbary. *Desfont. Atl.* 2. p. 247. *tab.* 222.

canus. Leaves semidecurrent, a little hoary, lanceolate, jaggedly toothed, ciliate with spines: peduncles naked, downy, solitary: scales of the calyx ovate lanceolate, appressed, mucronate.

Austria. *Jacq. Aufir.* 1. *tab.* 42, 43. Carduus.

pyrenaicus. Leaves semidecurrent, lanceolate, a little hoary, sinuate-toothed, ciliate with spines: peduncles naked, downy, mostly clustered: scales of the calyx ovate, mucronate, spreading at the top.

Pyrenees. *Jacq. obs.* 4. p. 11. *tab.* 95.

Gouani. Leaves decurrent, pinnatifid, with the divisions 3-parted, ciliate with spines: stem with one nodding flower: scales of the calyx lanceolate, spreading.

Pyrenees. *Gouan. illust.* 62. *tab.* 24.

dissectus. Leaves decurrent, lanceolate, with the denticles unarmed: calyx spinous.

France. *Leaves* not prickly.

Acarua. Leaves decurrent, lanceolate, hoary, toothed, spinous: flowers clustered, involucred: scales of the calyx lanceolate; the lower-ones ending in a pinnate spine.

Spain. *Cavan. ic.* 1. t. 53.

monspesulanus. Leaves decurrent, lanceolate, glabrous, somewhat repand, unequally ciliate: peduncles naked, downy, alternate: scales of the calyx oblong-lanceolate, mucronate.

Montpellier. *Leaves* glaucous.

- * *lanceolatus* Leaves decurrent, bristly, pinnatifid; the segments 2-lobed, divaricate, spinous: calyx ovate, villous, with lanceolate spinous spreading scales.

Walters. *Engl. Bot.* t. 197. *Mart. flor. rust.* t. 131.

- ferox*. Leaves slightly decurrent, pinnatifid, villous underneath, spinous on the margin and upper-surface; the segments 2 lobed: calyx hemispherical, involucred, with subulate spinous spreading scales.

France, Italy. *Allion. Pedem. n.* 565. *tab.* 50.

B. *Leaves sessile.*

- * *arvensis*. Leaves sessile, glabrous, tooth-pinnatifid, ciliate with spines, stem panicled: scales of the calyx lanceolate, with short soft spines.

Walters. *Eng. Bot.* t. 957. *Curt. Lond. fasc.* 6. t. 57.

- ciliatus*. Leaves clasping, pinnatifid, bristly, downy underneath; segments 2-lobed, divaricate, spinous: calyx ovate, with lanceolate spinous ciliate reflected scales.

Siberia. *Murr. Comm. Goett.* 1784. p. 35. *tab.* 5.

- leucocephalus*. Stem-leaves sessile, pinnatifid, bristly, downy underneath; segments lanceolate, spinous at top: calyx cylindrical, alternate, villous, involucred, with oblong appressed scales ending in recurved spines.

Crete. *Willd.* 3 p. 1668. Stem leaves undivided.

- echinatus*. Leaves sessile, pinnatifid, bristly, woolly underneath, with 2-lobed divaricate spinous segments: calyx ovate, woolly, bracted, with subulate spinous appressed scales.

Barbary. *Desfont. Atl.* 2. p. 247. Stem woolly.

- * *eriphorus* Leaves sessile, pinnatifid, bristly, downy underneath, spinous, every other segment pointing upwards: calyx globular, villous, with long mucronate reflected scales.

Walters. *Eng. Bot.* t. 386. *Jacq. Austr. tab.* 171.

- cynarioides*. Leaves sessile, pinnatifid, glabrous above, downy underneath, with 2-lobed, divaricate, spinous segments: calyx ovate, pubescent, with lanceolate rigid spinous very spreading scales.

Crete. *Lamar. encyclop.* 1. p. 695.

- orientalis*. Leaves sessile, pinnatifid, nearly glabrous above, downy underneath, with lanceolate spinous segments: calyx ovate, with appressed scales; the outer-ones subulate and spinous, inner-ones lanceolate.

Levant. *Willd.* 3. p. 1670. Calyx pubescent.

- discolor.* Leaves sessile, pinnatifid, hairy, downy underneath, with 2-lobed divaricate spinous segments: calyx globular, pubescent, with ovate appressed spreading spinous scales. North America. *Willd. 3. p. 1671.* Stem bristly.
- giganteus.* Leaves clasping, ovate, sinuate, bristly, downy underneath, with spinous lobes: peduncles about 3-flowered: calyx globular, with ovate-lanceolate spinous appressed scales. Barbary. *Desfont, Atl. 2. p. 245. tab. 221.*
- altissimus.* Leaves sessile, oblong-lanceolate, rough, downy underneath, toothed, ciliate; radical-ones pinnatifid: calyx bracted, ovate, with ovate-lanceolate spinous appressed scales. Carolina. *Dill. elth. 81. tab. 69. f. 80.* Cirsium.
- lanatus.* Leaves sessile, lanceolate, sinuate, glabrous, downy underneath, spinous on the margin: calyx oblong, with ovate mucronate recurved scales. East Indies. *Willd. 3. p. 1672.* Stem glabrous.
- inermis.* Leaves sessile, lanceolate, cut-toothed, downy underneath; radical-ones pinnatifid: scales of the calyx ovate-lanceolate, membranaceous at the margin, appressed. — *Willd. 3. p. 1672.* Flowers solitary, terminal.
- *pratenfis.* Leaves sessile, lanceolate, slightly toothed, ciliate, woolly underneath; lower-ones slightly cut: scales of the calyx lanceolate, mucronate, appressed. Meadows. *Eng. Bot. t. 177.*
- *heterophyllus.* Leaves clasping, hearted, lanceolate, ferrate, ciliate, downy underneath; lower-ones a little cut: scales of the calyx lanceolate, appressed, slightly mucronate. High pastures. *Eng. Bot. t. 675. Flor. Dan. t. 109.*
- kelenioides.* Leaves somewhat hearted, clasping, lanceolate, ciliate, downy underneath; the lower-ones a little cut: flowers somewhat clustered: scales of the calyx lanceolate, appressed, mucronate. Siberia. *Flowers 3 or 4 together, sessile.*
- ferratuloides.* Leaves lanceolate, sessile, ciliate, bristly underneath; radical-ones sinuate: stem branched: scales of the calyx oblong-lanceolate, mucronate, recurved at top. Siberia, Austria. *Jacq. Aust. t. 127. Gmel. Sib. 2. t. 23. f. 1.* Stem branched: leaves green both sides.

- meiixs*. Leaves sessile, pinnatifid, with the segments somewhat trifid and ciliate with spines; stem branched: calyx naked, with ovate-lanceolate, mucronate, appressed scales.
Italy. *Allion. Pedem. n. 542, tab. 49.* *Cirsium*.
- rigens*. Leaves sessile, pinnatifid, the segments cut-ferrate and spinous on the margin: stem branched: calyx bracted, with ovate appressed scales.
Switzerland. *Act. Helv. 4. p. 294. tab. 16.*
- ful-florigen-
sis*. Leaves toothed, ciliate, naked; stem-leaves clasping, pinnatifid; radical ones undivided, oblong; stem 2-flowered: scales of the calyx ovate-lanceolate, appressed.
Germany. *Willd. 3. p. 1675.* Leaves glabrous.
- reticularis*. Leaves toothed, ciliate, naked; stem leaves clasping; lower and radical-ones pinnatifid: flowers in clustered heads: scales of the calyx ovate-lanceolate, appressed.
Austria. *Jacq. Austr. 1. tab. 91.*
- montanus*. Leaves clasping, pinnatifid, rough, spinous-ciliate, with alternate oblong lanceolate 3-nerved segments: stem branched: flowers clustered: scales of the calyx ovate, spreading at top.
Hungary. *Waldst. Kitaib. pl. rar. Hung.*
- antarcticu*. Leaves hearted, clasping, pinnatifid, lanceolate and ciliate with spines at top, a little woolly underneath: flowers clustered: scales of the calyx ovate-lanceolate, mucronate.
Dauphiny. *Vill. Delph. 3. p. 12. tab. 19.*
- carniolicu*. Leaves hearted, clasping, ovate-oblong, toothed, ciliate; radical-ones oblong, obtuse, sinuate, ciliate: flowers terminal, somewhat clustered: calyx involucred, with linear-lanceolate spreading scales.
Carniola. *Scop. Carn. n. 105. tab. 54.* *Cirsium*.
- paucifloru*. Leaves clasping, ovate, somewhat lyrate, with ciliate serratures, rough; radical-ones lyrate: flowers glomerate: scales of the calyx lanceolate; the inner-ones spreading.
Hungary. *Waldst. Kitaib. pl. Hung.*
- tartaricus*. Leaves clasping, oblong-lanceolate, toothed, ciliate with spines: peduncles 1 flowered: calyx bracted, with lanceolate spinous scales.
Siberia. *Jacq. Austr. t. 90.* Calyx cylindrical.

- oleraceus*. Leaves clasping, hearted, pinnatifid, ciliate and ferrate: flowers terminal, somewhat racemed, with coloured ovate bractes: scales of the calyx lanceolate, spinous. Europe. *Flowers* lateral, sessile, 1 or 2 together.
- Erisithales*. Leaves clasping, pinnatifid, ciliate: peduncles drooping: calyx glutinous, with lanceolate spreading scales. France, Austria. *Jacq. Aufl. t. 310. Pluk. phyt. 154. f. 2.*
- ochroleucus*. Leaves clasping, decessively pinnatifid, ciliate; the segments lanceolate, 3-nerved; upper-ones confluent: peduncles drooping: scales of the calyx lanceolate reflected. Switzerland. *Flowers* yellow.
- tuberosus*. Leaves clasping, pinnatifid, ciliate with spines; the segments 2-lobed, with teeth pointing upwards at the base: stem about 2-flowered: scales of the calyx lanceolate, mucronate, spreading. South of Europe. *Moris. 3. sect. 7. tab. 29. f. 27, 28.*
- acaulis*. Stem 0: leaves pinnatifid, toothed, ciliate with spines: calyx glabrous, with lanceolate closely appressed scales. 2. Flower on a stem. *C. dubius. Willd. prodr. t. 6. f. 4.* Dry pastures. *Eng. Bot. t. 161. Flor. Dan. t. 1114.*
- dentatus*. Leaves clasping, lanceolate, doubly toothed, spinous, woolly underneath: stem 1-flowered: scales of the calyx ovate-lanceolate, mucronate, appressed. — *Willd. 3 p. 1681. Stem* simple, woolly, grooved,
- Casabonæ*. Leaves sessile, lanceolate, very entire, downy underneath, with ternate spines on the margin: flowers axillary, sessile: scales of the calyx lanceolate, spinous, spreading. South of Europe. *Lob. ic. 486. fig. 1..*
- asper*. Leaves sessile, lanceolate, downy underneath, somewhat repand, with emarginate doubly-spinous lobes: flowers peduncled, somewhat corymbed: scales of the calyx lanceolate, spinous, very much spread. Barbary. *Jacq. hort schænb. 2. p. 80, tab. 145.* 2. *Carduus, Diacantha. Billard. ic. pl. syn. 1. tab. 3.*
- bellatus*. Leaves sessile, lanceolate, very entire, unarmed, downy underneath: spines axillary, somewhat branched at the base: flowers axillary, sessile. — *Triumpf. obs. tab. 96.*
- syriacus*. Leaves clasping, oblong, toothed, spinous, with white veins: flowers nearly sessile, bracted: scales of the calyx oblong-lanceolate, appressed, mucronate. Spain, Barbary. *Com. hort. 33. tab. 10.*

- flavescens.* Leaves lanceolate, toothed, unarmed, glabrous, obscurely decurrent: calyx cylindrical, terminal; the scales appressed, oblong, obtuse, with spreading points.
Spain. *Cavan. ic. 1. t. 46.* Stem smooth.
- pinnatifidus* Leaves petioled, oblong, pinnatifid, toothed, woolly: calyx cylindrical, terminal; the scales appressed, oblong, with cartilaginous spreading points.
Spain. *Cavan. ic. 1. t. 83.* Stem simple, downy.
- spinosissimus* Leaves clasping, pinnatifid, toothed, spinous, pubescent: stem simple: flowers terminal, clustered: scales of the calyx lanceolate, spinous.
Austria, Switzerland. *Gmel. Sib. 2. p. 64. tab. 25.*
- echinocephalus.* Leaves sessile, rigid, deeply pinnatifid, downy underneath; the segments linear and spinous at top; calyx globular, glabrous, with lanceolate spinous spreading scales.
Tauria. *Willd. 3. p. 1685.* Stem simple, downy.
- centaurioides.* Leaves pinnatifid: calyx scarious, with pointed scales.
Pyrenees, Siberia. *Moris. 3. sect. 7. t. 25. f. 2.*
- uniflorus.* Leaves pinnatifid: calyx scarious, villous.
Siberia. *Gmel. Sib. 2. t. 38.* Stem simple, 1-flowered.
- arthamoides* Leaves unarmed, sessile, oblong, toothed; radical-ones undivided and pinnatifid: scales of the calyx scarious and pubescent.
Siberia. *Willd. 3. p. 1686.* Flowers solitary, terminal.
- cernuus.* Leaves downy underneath, clasping, ovate, toothed; radical-ones hearted: petioles winged, toothed: calyx scarious, mostly solitary, terminal, drooping.
Siberia. *Gmel. Sib. 2. p. 47. tab. 19.*
1469. ONOPORDON. *Receptacle* cellular, somewhat chaffy: *down* capillary: *calyx* swelling, imbricate, with pungent scales. *Cotton-thistle.*
- * *Acanthium* Calyx-scales spreading every way: leaves decurrent, downy, sinuate, toothed, spinous.
Wastes. *Eng. Bot. t. 977, Curt. Lond. fasc. 5. t. 57.*
- tauricum.* Calyx-scales spreading every way: leaves decurrent, glabrous both sides, sinuate, toothed, spinous.
Tauria. *Willd. 3. p. 87.* Plant glabrous.
- macrocarpum.* Calyx-scales spreading every way, as long as the calyx leaves decurrent, downy, sinuate, toothed, spinous radical-ones pinnate.
Morocco. *Scheuchb. Moroc. 193. tab. 5.*

- illyricum*. Lower calyx-scales reflected, upper-ones spreading every way: leaves decurrent, downy, sinuate, toothed, spinous. South of Europe. *Jacq. hort. t. 148*. Plant hoary.
- deltoides*. Calyx-scales spreading every way, downy: leaves petioled, ovate, angular, downy beneath. Siberia. *Aiton. kew. 3. p. 146*.
- græcum*. Calyx-scales ovate-lanceolate, mucronate, spreading: leaves decurrent, downy, somewhat sinuate, toothed, spinous. Levant. *Gouan. illust. 64. t. 25*. Stem downy.
- arabicum*. Calyx-scales ovate, mucronate, appressed: leaves decurrent, somewhat downy, sinuate, toothed, spinous. Portugal. *Jacq. hort. t. 149*. *Pluk. alm. t. 154. f. 5*.
- uniflorum*. Stemless: calyx cylindrical, sessile, with ovate mucronate appressed scales: leaves petioled, sinuate, toothed, spinous; downy. Spain. *Carvan. ic. 1. p. 69. t. 88*.
- acaulon*. Stemless: calyx globular, nearly sessile, with lanceolate spinous very spreading scales: leaves petioled, pinnatifid, toothed, spinous, downy. — *Jacq. ic. rar. t. 167*. Leaves white-downy.
- rotundifolium*. Stemless: calyx oblong, nearly sessile, with oblong-lanceolate downy unarmed scales: leaves petioled, roundish ovate, somewhat hearted, crenate-toothed, unarmed, downy. France, Italy. *Allion Pedem. t. 38. f. 1*.

1470. CYNARA. Receptacle bristly: calyx dilated, imbricate; the scales fleshy at the base, emarginate with a small point: down sessile, feathery.

Artichoke.

- integrifolia*. Leaves lanceolate, denticulate: calyx-scales lanceolate with a point. Spain. *Vahl. symb. 1. p. 68*. Plant glabrous.
- Scolymus*. Leaves prickly or unarmed, pinnate and undivided: scales of the calyx ovate. South of Europe. *Woodw. t. 199*. *Blackw. t. 458*.
- horrida*. Leaves pinnatifid, downy underneath, spinous; spines at the base of the leaves and segments united at bottom. Madeira. *Aiton. Kew. 3. p. 148*.

- Cardunculus*. Leaves spinous, all pinnatifid : calyx-scales ovate. *Cardoon*.
Barbary. Probably a hybrid from the last.
- humilis*. Leaves spinous, pinnatifid, downy underneath : scales of
calyx subulate.
Barbary. *Pluk. alm.* 85. t. 81. f. 2. Calyx spreading.
- acaulis*. Stemless : leaves unarmed, downy underneath, pinnatifid,
with cut-toothed segments : calyx-scales lanceolate,
scarious at top, toothed.
Barbary. *Desfont. Atl.* 2. p. 249. tab. 223.
- glomerata*. Stemless: leaves pinnate, spinous.
The Cape. *Thunb. prodr.* 141.
- pygmaea*. Stemless : leaves pinnate, nearly glabrous, with toothed
spinous segments : lower calyx-scales scarious at top.
Spain. *Willd.* 3. p. 1692. Leaves green both sides.

1471. *CARLINA*. *Receptacle* chaffy: *corol* floscular:
calyx swelling, radiate with long marginal
coloured scales : *down* feathery. *Carlina-thistle*.

- acaulis*. Stem simple, 1-flowered : leaves pinnatifid, naked, with
cut-toothed spinous segments.
Germany, Italy. *Blackw.* t. 532. Stem short or o,
- acanthifolia* Stemless: leaves pinnatifid, downy underneath, with tooth-
angular spinous segments.
Alps. *Allion. Pedem. n.* 571. tab. 51.
- adgregata*. Stem simple, 1-flowered, numerous, clustered : leaves
pinnatifid, glabrous, with pinnatifid divaricate spinous
segments.
Hungary. *Waldst. pl. Hung.* Leaves green.
- lyrata*. Leaves lyrate.
The Cape. *Thunb. prodr.* 141.
- lanata*. Stem mostly bifid; middle-flower sessile : leaves hoary,
lanceolate, toothed, spinous.
Italy, Barbary. *Garid. Aix.* 82. tab. 21.
- involutrata* Stem mostly bifid : middle-flower sessile : leaves pinnatifid,
toothed, spinous, glabrous.
Algeira. *Desfont. Atl.* 2. p. 251. Inner-calyx yellow.
- corymbosa*. Stem many-flowered, corymbed, nearly glabrous : leaves
lanceolate, pinnatifid-toothed, glabrous.
South of Europe. *Column. ecphr.* 1. t. 27. *Acarna*.

sulpburea. Stem forked, woolly : flowers axillary, nearly sessile : leaves lanceolate, toothed, ciliate with spines, pubescent
Barbary. *Desfont. Atl. 2. p. 251. tab. 224.*

* *vulgaris.* Stem many-flowered, corymbed, pubescent : leaves lanceolate, toothed, spinous, pubescent beneath.
Pastures. *Pet. H. Brit. tab. 15. fig. 10.*

racemosa. Stem mostly divided : flowers axillary, sessile : leaves lanceolate toothed, spinous, pubescent ; the floral-ones 3-nerved
Spain. *Clus. hist. 2. 157. f. 1.*

pyrenaica. Stem many-flowered : leaves decurrent.
Pyrenees. *Leaves* downy, pinnate, spinous.

xeranthemoides. Shrubby, branched, downy : leaves linear-fabulate, with the serratures spinous : panicle terminal : ray yellow.
Teneriffe. *Leaves* not decurrent.

1472. ATRACTYLIS. *Receptacle* chaffy : down feathery : *calyx* imbricate, invested with scales : *corol* radiate : corollets of the ray 5-toothed.

humilis. Stem and leaves glabrous.
Spain. *Cavan. ic. 1. t. 54. Leaves* sinuate.

flava. Stem and leaves downy.
Barbary. *Desfont. Atl. 2. p. 254. fig.*

1473. ACARNA. *Receptacle* chaffy : down feathery : *calyx* imbricate, invested with scales : *corol* floscular.

gummifera. Stemless : leaves pinnatifid : outer scales of the calyx tricuspidate.
Spain. *Cavan. ic. 3. p. 14. t. 228. Atractylis.*

macrocephala. Stemless : leaves pinnatifid : outer scales of the calyx flat, ciliate with prickles.
Barbary. *Desfont. Atl. 2. p. 263.*

macrophylla. Stem erect, somewhat branched : leaves oblong, rigid, spinous-toothed : outer-scales of the calyx lanceolate, toothed, spinous.
Barbary. *Desfont. Atl. 2. p. 226.*

caespitosa. Stem prostrate, branched : leaves linear, glabrous, spinous-toothed, much crowded.
Barbary. *Desfont. Atl. 2. tab. 225.*

lancea. Stem erect, branched: leaves lanceolate, ciliate, glabrous; outer-scales of the calyx setaceous-pinnate.
Japan. *Thunb. Jap.* 306. Stem fluxuous, glabrous.

ovata. Stem erect, simple: leaves ovate, ciliate, glabrous: outer-scales of the calyx ciliate-pinnate.
Japan. *Thunb. Jap.* 306. Flower terminal solitary.

cancellata. Stem branched: leaves lanceolate, ciliate-toothed, pubescent: outer-scales of the calyx setaceous-pinnate, connivent, larger than the flower.
Spain, Barbary. *Moris.* 3. *sect.* 7. *tab.* 39. *f.* 16.
Stem and leaves woolly: bractes pinnate-toothed.

1474. ONOSERIS. Receptacle nearly naked: down simple: calyx imbricate: corol radiate; corollets of the ray 3-toothed.

purpurata. Leaves lyrate, toothed, with the terminal lobe halbert-shaped.
New Granada. *Smith. ic. ined.* t. 65. *Atractylis.*

mexicana. Leaves oblong-lanceolate, very entire.
Mexico. *Smith. ic. ined.* t. 66. *Atractylis.*

1475. STOKESIA. Receptacle naked: down of 4 bristles: calyx foliaceous, somewhat imbricate: corol radiate; corollets of the ray funnel-form, irregular.

cyanea. Stokesia.
Carolina. *Ait. kew.* 3. p. 149. *Hill. kew.* t. 5. *Carthamus,*

1476. STOBÆA. Receptacle bristly, cellular: down chaffy: corol floscular: calyx imbricate, with tooth-spinous scales.

glabrata. Leaves hearted, clasping, oblong, glabrous.
The Cape. *Thunb. prodr.* 141.

carlinoides. Leaves heart-oblong, glabrous, tooth runcinate, spinous.
The Cape, *Thunb. prodr.* 141.

attractylloides. Lowest-leaves petioled, upper-ones sessile, toothed pinnatifid.
The Cape. *Pluk. alm.* 86. *tab.* 273. *f.* 4. *Carlina.*

decurrens. Leaves decurrent, glabrous, cut-pinnatifid, spinous.
The Cape. *Thunb. prodr.* 141.

latata. Leaves decurrent, ovate, spinous, downy.
The Cape. *Thunb. prodr.* 141.

- rigida.* Leaves hearted, pinnatifid, spinous, downy.
The Cape. *Thunb. prodr.* 141.
- heterophylla* Leaves downy, lowermost undivided, upper-ones lyrate.
The Cape. *Thunb. prodr.* 141.
- pinnatifida.* Leaves downy, pinnatifid, with ovate segments, spinous above at the tip.
The Cape. *Thunb. prodr.* 141.
- pinnata.* Leaves downy, pinnatifid, with linear segments ending in a spine. *Thunb. prodr.* 141.

1477. BARNADESIA. *Receptacle* villous: *down* of the disk bristly, of the ray feathery: *corol* radiate: *calyx* imbricate, a little swelling.

- spinosa.* Barnadesia.
South America. *Lamarck. illust. gen.* t. 600.
Shrub with glabrous spinous branchlets: *leaves* simple, ovate, very entire, a little hairy: *flowers* paniced, terminal.

1478. JOHANNIA. *Receptacle* villous: *down* feathery: *corol* floscular: *calyx* imbricate, radiate.

- insignis.* Johanna.
Peru. *Lamarck. illust.* t. 691. Chuquiraga.
Shrub branched: *leaves* small, prickly, ovate, entire, sessile, imbricate: *flowers* large, terminal.

1479. CARTHAMUS. *Receptacle* chaffy and bristly: *calyx* ovate, imbricate, with the scales somewhat ovate and foliaceous at top: *down* chaffy and hairy or o. *Bastard-saffron.*

- cinerarius.* Stem quite glabrous: *leaves* ovate, undivided, with spinous teeth: *seeds* naked.

Egypt, East Indies. *Rumph. Amb.* 5. t. 79.

- flavescens.* Stem quite glabrous: *leaves* oblong, undivided, with spinous teeth: *seeds* downy.

Armenia. *Willd.* 3. p. 1706. Spikes yellow.

- persicus.* Stem quite glabrous: *leaves* lanceolate, undivided, with spinous teeth: *outer-leaves* of the *calyx* as long as the flower, spreading, with spinous teeth at the base.

Persia. *Willd.* 3. p. 1707. Spines whitish.

- dentatus.* Stem villous: *leaves* pubescent, lanceolate, undivided, with spinous teeth: *inner-leaves* of the *calyx* roundish-dilated scarious and toothed at the tip.

Malta. *Vahl. Symb.* 1. p. 69. tab. 17.

- lanatus*. Stem woolly: lower-leaves pinnatifid, toothed; upper-ones clasping, pinnatifid-tooth, spinous.
South of Europe. *Blackw t.* 468. *Col. ecphr.* 1. t. 23.
- creticus*. Stem nearly glabrous: calyx a little woolly: lower-leaves lyrate; upper-ones clasping, pinnatifid-toothed, spinous.
Crete. *Florets* white with 5 black lines.
- pectinatus*. Stem villous: calyx glabrous: leaves pectinate-toothed, spinous: lower-ones linear-lanceolate; upper-ones ovate.
Barbary. *Desfont. Atl.* 2. p. 257. *tab.* 228.
- multifidus*. Stem somewhat villous: lower-leaves pinnatifid, with cut-toothed spinous segments; upper-ones ovate-lanceolate, with spinous teeth.
Algeira. *Desfont. Atl.* 2. p. 256. *tab.* 227.
- tingitanus*. Root-leaves pinnate; those of the stem pinnatifid: stem 1-flowered.
Tunis. *Carvan. ic.* 2. t. 128. Leaves spinous at top.
- cœruleus*. Leaves ovate-lanceolate, with spinous teeth: stem about 1-flowered.
Spain, Barbary. *Leaves* glabrous above: *seeds* downy.
- helenioides*. Leaves ovate: lower-ones very entire; upper-ones with unarmed teeth: stem about 1-flowered.
Barbary. *Desfont. Atl.* 2. p. 258. *tab.* 230.
- pinnatus*. Stem 1-flowered: leaves pinnate, the segments about 3-cleft and ferrate with spines: inner-scales of the calyx scarious and toothed at top.
Barbary. *Desfont. Atl.* 2. p. 258. *tab.* 229.
- mitissimus*. Leaves unarmed; radical-ones toothed: those of the stem pinnate.
France. *Scales* of the calyx very entire.
- Carduncellus*. Stem leaves linear, pinnate, as long as the plant.
Montpelier. *Seeds* with hairy down.
- arborescens*. Leaves sword-shaped, sinuate-toothed.
Spain. *Plant* pubescent: leaves clasping.
- salicifolius*. Stem shrubby: leaves sessile, lanceolate, downy underneath with spinous teeth: branches 1-flowered.
Madeira. *Calyx* spreading: *corol* white.
1480. SPILANTHES. *Receptacle* chaffy, conic down consisting of two awns, one of them less
calyx nearly equal.
- urens*. Leaves lanceolate, very entire: stem prostrate.
America, *Jacq. Amer.* 214. *tab.* 126. *f.* 1. *piet.* t. 194.

- Pseudoacmella*. Leaves lanceolate, ferrate : stem erect.
Ceylon. *Pluk. alm. t. 159. f. 4.* *Verbesina. Sp. pl.*
Stem brown, with white procumbent hairs : flowers yellow.
- Acemella*. Leaves ovate, ferrate : stem erect : flowers radiate.
Ceylon. *Pluk. alm. t. 315. f. 2.* *Rumph. amb. 6. t. 65.*
- uliginosa*. Leaves ovate-lanceolate, crenate, stem erect, forked : peduncles terminal : flowers radiate.
Jamaica. *Savartiz. prodr. 110.*
- exasperata*. Leaves ovate, repand : stem forked, ascending, rooting and rough at the base : calyx 5-leaved
Venezuela. *Jacq. ic. 3. t. 584.* Flowers white.
- alba*. Leaves ovate, repand ; lower-ones alternate : stem branched, ascending : calyx many-leaved.
Peru. *L'Herit. stirp. p. 7. t. 4.* Seeds ciliate
- atriplicifolia*. Leaves alternate, deltoid, toothed, petioled, stipuled : stem paniced.
South America. Seeds unarmed.
- insipida*. Leaves obovate, slightly toothed, sessile.
America. *Jacq. Amer. t. 126. f. 2. pict. t. 261. f. 3.*
- oleracea*. Leaves ovate, somewhat hearted, ferrate : stem branched, diffuse.
East Indies. *Jacq. hort. t. 135.* Flowers solitary.
1481. **BIDENS.** *Receptacle* chaffy, flat : seeds angular : down consisting of 2-4 erect awns rough backwards : calyx nearly equal, invested with leaves : corol with sometimes a radiating floret or two.
Bur-marigold.
- stripartita*. Flowers floscular : outer-leaves of the calyx larger than the flower : seeds erect : leaves 3-parted, lanceolate, toothed.
Watery places. *Engl. Bot. t. 1113. Curt. Lond. fasc. 4. t. 57.*
- nodiflora*. Flowers floscular, peduncled : outer-calyx 3 times as long as the flower : leaves ovate, with a tooth or two each side : stem hairy, forked.
Bengal. *Dill. Elth. 52. tab. 44. f. 52.*
- tenella*. Leaves linear : peduncles capillary : outer-calyx about 4-leaved : seeds erect, 5 together.
The Cape. *Amæn. Acad. 6. afr. 47.*

- *cernua*. Flowers sometimes radiate, drooping: outer-calyx longer than the flower: leaves lanceolate, coarsely serrate, nearly united at the base.
Ditches. *Engl. Bot. t. 1114. Curt. Lond. fasc. 3. t. 55*
- chrysanthemoides*. Flowers radiate, drooping; calyx nearly equal: ray 3 times as long as the calyx: leaves oblong, tapering to both ends, toothed, united at the base.
North America. *Willd. 3. p. 1717. Ray very large.*
- heterophylla*. Flowers radiate, erect: outer-calyx longer than the inner: stem-leaves lanceolate, serrate; radical ones about 3 together.
Mexico. *Willd. sp. pl. 3. p. 1718. n. 6.*
- frondosa*. Flowers floscular: outer-calyx 6-times as long as the flower, the leaves ciliate at the base: lower-leaves pinnate; upper-ones ternate, lanceolate, serrate.
America. *Moris. hist. 3. p. 17. sect. 6. tab. 5. fig. 21.*
- connata*. Flowers floscular: outer-calyx thrice as long as the flower: stem leaves ternate, the lateral leaflets united; floral-ones oblong-lanceolate.
North America. *Willd. 3. p. 1718. Outer-calyx 5-leaved.*
- leucantha*. Flowers radiate: outer-calyx as long as the inner: lower-leaves pinnate, upper-ones ternate; leaflets ovate, serrate, equal at the base.
America. *Coreopsis Leucantha. Sp. pl. 1282.*
- chinensis*. Flowers radiate: outer-calyx as long as the inner: lower-leaves pinnate, upper-ones ternate; leaflets oval, heart-ed, somewhat serrate, unequal at the base.
East Indies *Rumph. Amb. 6 t. 15. f. 2. Agrimonia.*
- filosa*. Flowers floscular: outer calyx as long as the inner: lower-leaves pinnate, upper-ones ternate; leaflets oblong, the terminal-one lanceolate and twice as long as the rest.
North America. *Dill. Elrh. 51. tab. 43. fig. 51.*
- sambucifolia*. Flowers radiate: outer-calyx longer than the inner: leaves decussately pinnate and serrate.
Peru, Mexico. *Cavan. ic. 3. t. 229. Flowers scarlet.*
- odorata*. Flowers radiate: outer-calyx as long as the inner: leaves doubly pinnate, with wedge-form 3-toothed leaflets.
Mexico. *Cavan. ic. 1. t. 13. Ray white; 5-flowered.*
- bipinnata*. Flowers sometimes radiate: outer-calyx as long as the inner: leaves doubly pinnate, with lanceolate pinnatifid leaflets.
Virginia. *Moris. hist. 3. p. 17. sect. 6. tab. 7. fig. 23.*

vivax. Flowers floscular: calyx imbricate: leaves triply nerved, ovate, pointed, rough; upper-ones somewhat halbert-shaped, unequally toothed; lower-ones somewhat hearted.

Carolina. *Dill. Elb. t. 46. fig. 54. t. 47. f. 55.*

verticellata. Leaves oblong, undivided, opposite above, alternate below: flowers in whorls.

Vera cruz. *Leaves* hoary underneath.

hirsuta. Leaves opposide, ovate-lanceolate, very entire, with rough down: stem climbing, shrubby: peduncles opposite, divergent, many-flowered.

Jamaica. *Leaves* hoary underneath.

scandens. Leaves opposite, ovate, pointed, ferrate: stem climbing, shrubby: peduncles panicled: flowers ovate.

Vera Cruz, Jamaica, *Savartz. obs. 297.*

erocata. Flowers floscular: calyx imbricate: leaves hoary-rough, with jagged teeth; those of the stem somewhat lyrate; radical-ones ovate: stem 4-winged.

Mexico. *Cav. ic. 1. t. 99.* Seeds compressed, winged.

bullata. Flowers floscular: outer calyx longer than the flower: leaves rough, toothed: lower-ones roundish ovate; upper-ones ternate: stem hairy.

North America. *Arduin. Spec. 3. t. 18.* Flowers yellow.

1482. LAVENIA. *Receptacle* naked: *down* 3-awned, glandular at top: *calyx* ovate, somewhat imbricate.

decumbens. Stem simple, decumbent: leaves somewhat hearted, obtusely ferrate.

Jamaica. *Sloan. Jam. 1. t. 155. f. 2.* Chrysanthemum.

erecta. Stem branched, erect: leaves elliptic, sharply ferrate.

Ceylon. *Burm. Zeyl. t. 42. Rheed. Mal. 10. tab. 63.*

1483. CACALIA. *Receptacle* naked: *down* simple: *calyx* cylindrical, oblong, slightly invested with scales at the base.

A. *Shrubby.*

capillaris. Stem invested with cylindrical truncate petiolor protuberances: leaves lanceolate, flat.

The Cape. *Dill. Elb. 63. tab. 55. fig. 63.* Calicanthemum.

- pendula*. Stem and branches fleshy, leafless, scaly : peduncles 1-flowered.
Arabia felix *Vahl. symb.* 3. p. 90. Scales placed spirally.
- anteuphorbium*. Leaves ovate-oblong, flat : petioles with a triple line from the base.
The Cape. *Dill. Elph.* 63. tab. 55. f. 2, 3.
- cuneifolia*. Leaves wedge-form, fleshy.
The Cape. *Leaves* scattered, a little convex.
- Kleinia*. Leaves lanceolate, flat : flowers corymbed.
Canaries. *Dill. Elth* 61. tab. 54. f. 2.
- acuta*. Leaves lanceolate, flat, flowers in umbels.
Arabia felix. *Vahl. symb.* 3. p. 90.
- strepens*. Leaves compressed, fleshy.
The Cape. *Comm. rar.* t. 40. *Bradl. succ.* 5. t. 49.
- canadensis*. Leaves nearly cylindrical, fleshy, incurved : peduncles terminal, 1-flowered, naked.
The Cape. *Aiton. Kew.* 3. p. 156.
- repens*. Leaves depressed, fleshy.
The Cape. *Thunb. prodr.* 141. Leaves not compressed.
- articulata*. Leaves flat, fleshy, ternate : leaflets 3-lobed.
The Cape. *Jacq. rar.* 1. t. 168. *L'Herit. tab.* 83.
- rigida*. Leaves ovate, obtuse, flat.
The Cape. *Thunb. prodr.* 142.
- arbuscula*. Leaves lanceolate, flat, glabrous.
The Cape. *Thunb. prodr.* 142.
- pomentosa*. Leaves ovate-lanceolate, toothed, downy beneath.
The Cape. *Thunb. prodr.* 142.
- asclepiadea*. Downy : leaves petioled, ovate-lanceolate, very entire, glabrous above, downy underneath, revolute at the margin : panicles terminal.
South America. *Stems* covered with a soft down.
- appendiculata*. Downy : leaves heart-shaped, ovate, acute, angular, downy underneath : petioles with leafy appendages.
Teneriff. *Stem* angular ; *leaves* glabrous above.
- reticulata*. Leaves heart-shaped, roundish, clasping, denticulate : flowers corymbed.
Bourbon. *Vahl. symb.* 3. p. 91. Glabrous : *down* simple.

B. *Herbaceous.*

- acaulis.* Stemless : leaves semicylindrical : scapes 1-flowered.
The Cape. *Thunb. prodr.* 142.
- radicans.* Creeping and rooting : leaves cylindrical-ovate, fleshy.
The Cape. *Thunb. prodr.* 142.
- sempervirens.* Fleshy : stem erect : leaves lanceolate, obtuse : peduncles mostly in pairs, terminal, 1-flowered.
Arabia felix. *Vahl. Symb.* 3. p. 92. Leaves glabrous.
- sonchifolia.* Leaves clasping, toothed ; lower-ones lyrate ; upper-ones lanceolate and arrow-shaped
Ceylon. *Reed. Mal.* 10. t. 68, *Rumph. Amb.* 5. t. 103. f. 1.
- sagittata.* Leaves denticulate ; lower-ones petioled, obovate ; upper-ones oblong-lanceolate, arrow-shaped, clasping.
Java. *Vahl. symb.* 3. p. 91. Flowers orange-purple.
- hieracioides.* Stem simple : leaves petioled, obovate, toothed.
East Indies. Stem rarely branched : leaves glabrous.
- bicolor.* Stem branched : leaves lanceolate, glabrous, toothed ; those of the stem clasping, of the branches petioled.
East Indies. *Willd.* 3. p. 1731.
- coccinea.* Stem slightly branched : root-leaves ovate, spatulate ; stem-leaves clasping, hearted, crenate, margined.
— *Curt. Magaz.* t. 564. Stem hairy at the base.
- incana.* Stem herbaceous : leaves lanceolate, toothed.
India. Peduncles terminal, branched, naked.
- rotundifolia.* Stem branched : leaves roundish, petioled ; repand, pubescent : flowers corymbed.
East Indies. *Willd. Phyt.* 11. tab. 6. f. 1. Leaves rough.
- scabra.* Root-leaves petioled, oblong, toothed ; stem-leaves lanceolate, sessile.
Brasil. *Vahl. symb.* 3. p. 92. Leaves hairy.
- saracenica.* Leaves sessile, oblong-lanceolate, serrate, wedge-shaped, very entire and decurrent at the base.
South of France. Stem angular.
- hastata.* Leaves petioled, 3-lobed in a halbert-shaped manner, serrate : flowers racemed, nodding.
Siberia. *Gmel. Sib.* 2. p. 136. t. 66. Leaves glaucous.
- suaveolens.* Leaves petioled, halbert-arrow-shaped, serrate : flowers corymbed, erect.
Virginia. Corols white with yellow antheræ.

- atriplicifolia*. Leaves petioled; radical-ones heart-shaped, toothed; stem-leaves rhombic, 2-toothed each side: flowers corymb-
ed, erect.
Virginia. *Pluk. alm. t. 101. f. 2. Moris secl. 7. t. 15. f. 7.*
- reniformis*. Leaves petioled; radical-ones hearted, kidney-form, repand-
toothed; stem leaves oblong, toothed, wedge shaped
and very entire at the base: corymb flat-topped.
Pennsylvania. *Willd. 3. p. 1735. Flowers white.*
- echinata*. Leaves kidney-form, heart-shaped, angular-toothed, downy
underneath: leaflets of the calyx tubercled.
Teneriffe. *Linn. suppl. 353.*
- alpina*. Leaves petioled, hearted, toothed, glabrous; the petioles
naked: corymb flat-topped: calyx about 5-flowered.
Alps. *Jacq. Aust. t. 234. Moris. 3. s. 7. t. 12. f. 6.*
- albifrons*. Leaves petioled, hearted, toothed, hoary underneath: peti-
oles auricled at the base: corymb flat-topped: calyx
about 5-flowered.
Alps. *Jacq. Aust. t. 235. Moris. 3. s. 7. t. 12. f. 1.*
- leucophylla*. Leaves petioled, downy both sides, toothed; lower-ones
hearted, pointed; upper-ones lanceolate: petioles nak-
ed: flowers corymb: calyx many-flowered,
Alps. *Vill. Delph. 3. p. 171. C. tomentosa.*
- candicans*. Woolly: root-leaves and lower-ones oval, petioled, crenate;
upper-ones sessile, elliptic, very entire.
Near Magellan's Straits. *Vahl. symb. 3. p. 91. tab. 71.*
Plant snowy-downy: stem simple: calyx glabrous.
- scandens*. Climbing: leaves triangular, sinuate-toothed.
The Cape. *Thunb. prodr. 142.*
- quinqueloba*. Climbing: leaves 5-lobed.
The Cape. *Thunb. prodr. 142.*
- bipinnata*. Leaves doubly pinnate; linear.
The Cape. *Stem striate: leaves toothed: flowers yellow.*
1484. *KLEINIA*. Receptacle naked: down simple:
calyx simple, equal, many-leaved.
- raderatis*. Leaves oblong-lanceolate, acute at both ends, very entire or
repand.
West Indies. *Jacq. Amer. 215. tab. 127.*

Porophyllum Leaves elliptic, obtuse, mucronate, repand; with pellucid dots.

Martinico. *Cavan. ic. 3. p. 11. tab. 222.* Cacalia.

angulata. Lower-leaves petioled, oblong, toothed, angular; upper-ones lanceolate, very entire.

Arabia felix. *Vahl. symb. 3. p. 92.* Cacalia.

suffruticosa. Leaves linear, very entire, with pellucid dots: stem somewhat shrubby.

New Spain. *Cavan. ic. 3. p. 29. t. 257.* Cacalia.

Leaves scattered, minute, fleshy: flowers purple.

1485. ETHULIA. Receptacle naked: seeds crowned with a membranaceous margin: calyx equal.

conyzoides. Flowers panicled; florets distant.

India. *Linn. fil. Dec. 1. tab. 1.*

spargano- Flowers sessile, lateral.

phora. India. *Sp. pl. 1171.*

Struchium. Flowers axillary, sessile; all 3-cleft.

Jamaica. *Brown. Jam. 312. tab. 34. f. 2.* Struchium.

divaricata. Leaves linear, toothed, decurrent; peduncles opposite the leaves, 1-flowered: stem divaricate.

Malabar. *Burm. ind. t. 58. f. 1. Pluk. alm. t. 21. f. 4.*

tomentosa. Suffruticose: leaves linear, very entire, downy.

China. Stem striate: leaves sessile, hoary.

Bidentis. Racemelets pointing one way: calyx about 5-flowered: leaves lanceolate, opposite.

India. Stem 6-angled: leaves serrate, glabrous.

uniflora. Leaves linear, glabrous, whorled: stem about 1-flowered.

Carolina. *Willd. 3. p. 1742.* Stem round, striate, glabrous.

1486. MIKANIA. Receptacle naked: calyx 4 or 6-leaved, 4 or 6 flowered: down simple.

A. Stem climbing.

Houstonis. Leaves ovate, very entire: flowers spiked.

West Indies. *Eupatorium Houstonis. Sp. pl. 1172.*

hastata. Leaves somewhat hearted, halbert-shaped, toothed: flowers spiked.

Jamaica. *Brown. Jam. 316. tab. 34. f. 3.* Kleinia.

scandens. Stem glabrous: leaves heart-shaped, repand-toothed, pointed, with divaricate unequal lobes: flowers corymbed.

Virginia. *Jacq. ic. rar. 1. tab. 169.* Eupatorium.

volubilis. Stem pubescent : leaves heart-shaped, crenate or entire, acute, with rounded approximate equal lobes : corymbs paniced.

East Indies. *Burm. ind.* 176. t. 58. f. 2. Eupatorium.

denticulata. Stem angular : leaves heart-shaped, rather obtuse, slightly denticulate, rough : flowers corymbed.

Surinam. *Vahl symb.* 3. p. 93. Eupatorium.

Branches with 5 acute angles : calyx 4-leaved.

tomentosa. Leaves alternate, heart-shaped, angular-toothed, downy underneath : flowers corymbed.

Bourbon. *Willd.* 3. p. 1744. Leaves green and downy above.

amara. Leaves ovate, somewhat hearted, very entire, downy underneath : flowers corymbed.

Guiana, Caribbees. *Aubl. Guian.* 2. t. 315. Eupatorium.

chenopodiifolia. Leaves triangular-ovate, pointed, repand, 5-nerved, glabrous : flowers corymbed.

Sierra Leona, *Willd.* 3. p. 1745. Branches striate.

auriculata. Stem angular : leaves triangular and a little halbert shaped, toothed, alternate, stipuled : flowers corymbed.

The Cape. *Lamarck. encyclop.* 2. p. 408. Eupatorium.

stipulacea. Leaves halbert-shaped, tapering to both ends, 3-nerved, pubescent underneath, stipuled : flowers corymbed.

Brazil. *Vahl. symb.* 3. p. 94. Eupatorium.

B. Stem erect.

cordifolia. Hairy : leaves heart-ovate, acute, rough : panicle terminal.

South America. *Cacalia cordifolia.* Linn. *suppl.*

laurifolia. Glabrous : leaves ovate, obtuse, quite glabrous : panicle contracted, terminal.

Mexico. *Cacalia laurifolia.* Linn. *suppl.*

melissæfolia. Pubescent : leaves ovate, crenate, sessile, downy underneath : corymb terminal.

Peru. *Lam. encycl.* 2. p. 408. Eupatorium.

saturejæfolia. Pubescent : leaves linear, very entire : flowers corymbed.

— *Lamarck. encycl.* 2. p. 408. Eupatorium.

1487. PIQUETRA. Receptacle naked : calyx 4-leaved, equal, 4-flowered : down ○ : seeds 5-sided.

trinervia. Piquetra.

Mexico. *Cavan. ic.* 3. p. 19. tab. 235.

Leaves lanceolate, serrate : flowers white.

1488. EUPATORIUM. *Receptacle naked: down*
simple or rough: calyx imbricate, oblong:
style longer than the flower, cloven half way down.
Hemp-agrimony.

A. *Calyx containing 3-5-flowers.*

arviflorum Shrubby: leaves ovate-lanceolate, ferrate, glabrous: corymbs spreading: calyx 3-flowered.
 Jamaica. *Swartz. prodr.* 111.

Dalea. Leaves lanceolate, veined, obscurely ferrate, glabrous: calyx 4-flowered: stem shrubby.
 Jamaica. *Brown Jam. t.* 34. *f.* 1. *Jacq. hort.* 2. *t.* 146.

triflorum. Shrubby, climbing: leaves ovate-lanceolate, somewhat hearted, alternate, very entire, rough, downy underneath: flowers racemed, paniced.
 Guinea. *Aubl. Guian.* 2. *p.* 795. *tab.* 314.

hyssopifolium Leaves opposite, somewhat whorled, linear, very entire, pubescent, 3-nerved, dotted; the radical-ones slightly toothed.
 Virginia. *Dill. Elth. t.* 115. *f.* 14. *Pluk. alm. t.* 88. *f.* 2.

linearifolium. Leaves linear-lanceolate, denticulate, obscurely 3-nerved, dotted, pubescent; lower-ones opposite, in whorls; upper-ones alternate.
 Carolina. *Willd.* 3. *p.* 1750.

coronopifolium. Lower-leaves pinnatifid: the rest undivided, fascicled, linear, very entire: stem paniced.
 Carolina. *Willd.* 3. *p.* 1750. Flowers white.

fœnicula-cum. Lower-leaves pinnate, filiform; upper-ones fascicled, filiform: stem paniced.
 Carolina. *Willd.* 3. *p.* 1750.

zeylanica. Leaves alternate, petioled, ovate, auricled and somewhat halbert-shaped at the base, wrinkled and downy underneath, denticulate: corymb divaricate, naked.
 Ceylon. *Burm. Zeyl.* 52. *tab.* 21. *Cacalia.*

sessifolium. Leaves sessile, clasping, distinct, ovate-lanceolate, rounded at the base, ferrate, quite glabrous: stem nearly glabrous.
 Virginia. *Leaves* with small resinous dots beneath.

truncatum. Leaves sessile, clasping, distinct, lanceolate, tuncate at the base, ferrate, nearly glabrous: stem pubescent.
 Pennsylvania. *Willd.* 3. *p.* 1751. Leaves dotted.

- album.* Leaves nearly sessile, oblong-lanceolate, roughish, ferrate; inner-scales of the calyx long, lanceolate, scarious, white.
Virginia, Japan. *Banks ic. Kempf. t. 26.*
- lanceolatum* Leaves sessile, distinct, oblong-lanceolate, rough; deeply ferrate at the base.
North America. *Willd. 3. p. 1752.* Stem pubescent.
- teucriifolium* Leaves sessile, distinct, ovate, rough; upper ones coarsely ferrate at the base, uppermost very entire.
North America. *Willd. hort. tab. 32.*
- cuneifolium.* Leaves petioled, obovate-lanceolate, slightly ferrate at top, triply-nerved, pubescent both sides.
Carolina. *Willd. 3. p. 1753.* Flowers white.
- chinense.* Leaves petioled, obovate, pointed, obtusely ferrate, veined, glabrous.
China, Japan. *Stem cross-armed; corymbs terminal.*
- melissoides.* Leaves petioled, ovate, rather obtuse, obtusely ferrate, veined, nearly glabrous.
Pennsylvania. *Willd. 3. p. 1754.*
- rotundifolium.* Leaves sessile, distinct, roundish heart-shaped, obtusely ferrate, veined.
Virginia, Canada. *Pluk. alm. tab. 88. f. 4.*
- altissimum.* Leaves nearly sessile, lanceolate, 3-nerved, tapering to both ends, pubescent; lower ones ferrate in the middle.
Pennsylvania. *Jacq. hort. tab. 164.*
- ceanothifolium.* Leaves petioled, ovate, pointed, toothed, triply-nerved, glabrous.
North America. *Willd. 3. p. 1755.* Stem pubescent.
- pubescens.* Leaves sessile, distinct, ovate, rough, veined; lower-ones doubly ferrate; upper-ones slightly ferrate: stem panicled, pubescent: branches flat-topped.
North America. *Willd. 3. p. 1755.* Calyx very pubescent.
- trifidum.* Leaves 3-parted; floral-ones undivided: stem climbing.
Caribbees. *Vahl symb. 3. p. 94.* Leaves glabrous.
- trifoliatum.* Leaves petioled, 3 or 4 in a whorl, ovate, tapering to both ends, ferrate, roughish.
Virginia. *Sp. pl. 1173.*
- * *cannabinum.* Leaves petioled, in 3 or 5 lanceolate ferrate leaflets; the terminal ones longer.
2, Leaves undivided.
Watery banks. *Engl. Bot. t. 428. Blackw. t. 110.*

- japonicum*. Leaves undivided and 3-lobed, ferrate: stem rough.
Japan *Thunb. Jap* 308. Leaves paler beneath.
- syriacum*. Leaves petioled, ternate and simple, pubescent underneath, unequally ferrate: stem smooth.
Syria. *Jacq. ic rar.* 1. *tab* 170. Flowers purple.
- B. *Calyx with 6 or more florets.*
- auriculatum*. Leaves ovate, denticulate, downy underneath: petioles auricled: stem climbing: flowers spiked.
Brasil. *Vabl. symb.* 3. *p.* 95. *tab.* 72. Florets 7.
- coriaceum*. Leaves elliptic, coriaceous, glabrous, remotely toothed.
South America. *Vabl. symb.* 3. *p.* 95. Florets 7.
- diffusum*. Leaves ovate, ferrate, 3-nerved: panicle much branched, diffuse.
South America. *Vabl. symb.* 3. *p.* 94. Plant glabrous.
- cinereum*. Leaves opposite, lanceolate, downy: calyx 7-flowered.
The Cape. *Linn. suppl.* 353. *Thunb. prod.* 142.
- scabrum*. Villous: leaves opposite, petioled, ovate, nearly entire, wrinkled, rough above.
New Grenada. *Smith. ic. ined.* *tab.* 67.
- purpureum*. Leaves petioled, 4 or 5 in a whorl, ovate-lanceolate, ferrate, wrinkled and veined, roughish: stem hollow.
America. *Corn. Canad.* 1. 72. *Moris.* 3. *f.* 7. *t.* 13. *f.* 4.
- maculatum*. Leaves petioled, 4 or 5 in a whorl, ovate-lanceolate, unequally ferrate, pubescent underneath: stem leafy, grooved.
North America. *Moris. bist.* 3. *sect.* 7. *t.* 18. *f.* 3.
Stem solid, grooved, dotted with purple lines.
- verticillatum*. Leaves petioled, 3 or 4 in a whorl, ovate-lanceolate, wedge-shaped at the base, unequally ferrate, nearly glabrous: stem solid, smooth.
North America. *Willd.* 3. *p.* 1760. Flowers purplish.
- perfoliatum*. Leaves united in a perfoliate manner, downy.
Virginia. *Pluk. alm.* 140 *tab.* 87. *fig.* 6.
- flexuosum*. Leaves petioled, alternate, ovate-lanceolate, with glandular ferratures: panicle terminal: stem somewhat shrubby, flexuous.
Mauritius. *Lamarck. encycl.* 2. *p.* 407. Glabrous.

- nervosum*. Leaves elliptic-lanceolate, tapering, toothed, triply nerved, glabrous both sides: calyx many-flowered.
Jamaica. *Swartz. prodr.* 111.
- rigidum*. Leaves petioled, ovate, acute, ferrate-toothed, rigid, rough underneath: stem somewhat herbaceous.
Jamaica. *Swartz. prodr.* 111.
- glutinosum*. Leaves opposite, petioled, heart-lanceolate, ferrate, wrinkled, downy underneath.
Peru. *Lamarck. encycl.* 2. p. 405.
- microphyllum*. Leaves triangular-ovate, with 9 crenatures, downy and brown-veined underneath: panicle clustered, terminal: peduncle elongated.
New Granada. *Smith. ic. ined. tab.* 79.
- canescens*. Hoary: leaves ovate, slightly lobed and entire, with 3 soft nerves underneath: corymbs simple.
Santa Cruz. *Vahl. symb.* 3. p. 95. *tab.* 73.
- villosum*. Leaves opposite, decussate, ovate, acute, slightly ferrate, villous-downy underneath: calyx 8-15-flowered: stem shrubby.
Jamaica, Domingo. *Scan. Jam.* 1. t. 161. f. 2. Conyza.
- molle*. Leaves petioled, hearted, acute, slightly ferrate, pubescent: stem herbaceous, downy.
Guinea, Jamaica. *Swartz. prodr.* 111.
- cordifolium*. Leaves hearted, ferrate, downy and hairy underneath: petioles very short: corymbs nearly sessile: calyx spreading every way: stem shrubby.
Jamaica. *Swartz. prodr.* 111.
- montanum*. Leaves hearted, acute, denticulate, petioled, rough, hairy underneath: corymbs spreading: stem shrubby.
Jamaica. *Swartz. prodr.* 111.
- caelestinum*. Leaves petioled, heart-ovate, rather obtuse, triply-nerved, obtusely ferrate: flowers corymbed.
Carolina. *Dill. Eth.* t. 114. f. 139. *Pluk. mant.* t. 394. f. 4.
- urticæfolium*. Bristly: leaves petioled, heart-shaped, cut-ferrate: panicle terminal: calyx many-flowered, subulate, a little pungent.
New Granada. *Smith. ic. ined. tab.* 68.
- macrophyllum*. Leaves heart-shaped, 3-nerved, ferrate, pubescent underneath: stem pubescent.
Caribbees. *Plum. spec.* 10. ic. 129.

- sqarrosum*. Leaves petioled, heart-shaped, serrate, pubescent underneath: flowers corymbed, drooping: peduncles 3-flowered: calyx spread every way.
Mexico. *Cavan. ic. 1. t. 98*. Leaves green above.
- aromaticum*. Leaves petioled, ovate, acute, 3-nerved, obtusely serrate, glabrous: stem paniced near the top: flowers corymb-ed: calyx simple.
Virginia. *Pluk. alm. 141. tab. 8. fig. 3*.
Flowers snowy, with 18 to 28 florets.
- ageratoides*. Leaves petioled, ovate, pointed, 3-nerved, unequally and coarsely serrate, glabrous: corymb many-flowered, divaricate: calyx nearly simple.
Canada. *Corn. Canad. t. 21. Moris. 3. f. 7. t. 18. f. 11*.
- deltoidum*. Leaves petioled halbert-triangular, 3-nerved, unequally serrate, pubescent underneath: panicle corymbed: calyx nearly simple.
— *Jacq. hort. Schænb. 3. p. 63 tab. 369*. Flowers purple.
- conyzoides*. Leaves ovate, tapering, acutely serrate, 3-nerved, glabrous above: calyx closely imbricate.
South America? *Vahl. symb. 3. p. 96*. Branches downy.
- atriplicifolium*. Leaves petioled, triangular-ovate, acute, obtusely serrate, 3-nerved, dotted, rough on the margin: corymbs terminal, sessile.
Santa Cruz. *Vahl. symb. 3. p. 96*. Florets about 20.
- repandum*. Leaves petioled, triangular-ovate, obtuse, repand-sinuate, slightly downy underneath: corymbs axillary.
St. Domingo. *Plum. sp. 10. ic. 128. f. 1.*
- odoratum*. Leaves petioled, triangular-ovate, serrate, very entire at top, pubescent underneath: corymbs divaricate, terminal, sessile.
Jamaica. *Pluk. phyt. tab. 177. f. 3*.
- divaricatum*. Leaves ovate, obtuse, slightly ciliate.
The Cape. *Breyn. ic. tab. 17. f. 2*. Cyanus.
- obtusifolium*. Leaves petioled, alternate, oblong, obtuse, very entire: peduncles axillary, somewhat corymbed.
North America. *Willd. 3. p. 1768*.
- coloratum*. Leaves petioled, alternate, oblong, acute, nearly very entire, hoary-downy underneath: corymb terminal, divaricate.
Guinea. *Willd. 3. p. 1768*. Down rawny, sessile,

- retrofractum*. Leaves obovate, acute, glabrous.
The Cape. *Thunb. prodr.* 142.
- cotinifolium*. Leaves petioled, alternate, obovate, mucronate, very entire, 3-nerved: corymb terminal.
Martinico, *Willd. phytogr.* 11. tab. 7. fig. 1.
- Ayapana*. Leaves lanceolate, very entire, about 3-nerved; lower ones opposite, upper ones alternate: calyx unequal, many-flowered.
Brasil. *Ventenat Jard. de la Malmaison fasc. 1. tab. 3.*
Flowers purple, in axillary and terminal corymbs.
- triplinerve*. Leaves lanceolate, triply-nerved, very entire, glabrous.
Santa Cruz. *Vahl. symb.* 3. p. 97. Florets 20.
- isæfolium*. Leaves narrow-lanceolate, 3-nerved, slightly ferrate: calyx squarrous, many-flowered.
Jamaica. *Amæn. Acad.* 5. p. 405.
- stæchadisifolium*. Downy: leaves petioled, linear, crenate, downy, hoary underneath: panicle terminal.
New Granada. *Smth. ic. ined. tab.* 69.
- myosotifolium*. Leaves petioled, alternate, lance-obovate, very entire, ciliate: panicle trichotomous, divaricate, terminal.
America. *Jacq. ic.* 3. tab. 282.
- amygdalinum*. Leaves opposite, oblong-lanceolate, slightly toothed, glabrous, sessile.
Peru. *Lamarck. encycl.* 2. p. 405. Calyx unequal.
- spicatum*. Leaves opposite, linear-spatulate, with a few teeth above: spike terminal; flowers sessile, clustered.
Monte Video. *Lamarck. encyclop.* 2. p. 405.
- salicinum*. Leaves oblong lanceolate, with a few teeth above, glabrous and wrinkled above, downy underneath.
Peru. *Lamarck. encyclop.* 2. p. 406.
Stem angular, pubescent: leaves not nerved.
- furcatum*. Leaves linear-lanceolate, narrow, opposite, very entire: stem forked.
Antillys. *Lamarck. encyclop.* 2. p. 404.
Stem glabrous: leaves often somewhat whorled.
- sophiæfolium*. Leaves doubly pinnate, with obovate leaflets; the terminal ones confluent.
Antillys. *Plum. spec.* 9. ic. 128. fig. 2.

1489. KUHNIA. *Receptacle* naked: *down* feathery, sessile: *calyx* imbricate, cylindrical.

Eupatorio-
ides. Leaves lanceolate, serrate: corymb terminal, compact.
Pennsylvania. *Lin. fil. dec. 21. tab. 11.*

Critonia. Leaves linear, nearly very entire: corymb terminal, spreading.
Pennsylvania. *Gærtn. sem. 2. p. 411. tab. 174. f. 7.*

1490. AGERATUM. *Receptacle* naked: *seeds* crowned with 5 chaffs, more or less awned: *calyx* oblong, of a double row of leaflets: *florets* 4 or 5 cleft.

conyzoides. Leaves ovate, somewhat hearted: stem hairy: chaff of the seeds awned, denticulate.
America. *Sloan. Jam. 1. t. 152. f. 2. Pluk. phyt. 88. f. 1.*

latifolium. Leaves ovate, wedge-shaped at the base; stem hairy: chaff of the seeds lanceolate, acute
Peru. *Cavan. ic. 4. t. 357.* Crown of the seeds not awned.

ciliare. Leaves ovate, crenate, obtuse: stem glabrous.
East Indies. *Pluk. alm. tab. 81. f. 4.* Centaurium.

1491. STEVIA. *Receptacle* naked: *seeds* crowned with chaff or awns or both: *calyx* cylindrical, of a single row of leaflets.

linearis. Shrubby: leaves linear, very entire: corymbs few-flowered: crown of the seeds chaffy.
Mexico. *Cavan. ic. 3. t. 205.* Chaff subulate.

Eupatoria. Herbaceous: leaves oblong-lanceolate, 3-nerved, nearly very entire: corymb flat-topped: crown of the seeds chaffy and awned.
Mexico. *Transact. Soc. Linn. 6. t. 13.* Mustelia.
Leaves sessile, dotted: flowers reddish.

salicifolia. Herbaceous: leaves lanceolate, tapering to both ends, serrate in the middle: corymb spreading: crown of the seeds 2-awned.
Mexico. *Cavan. ic. 4. p. 32. tab. 354.*

serrata. Herbaceous: leaves linear-lanceolate, serrate at top: corymbs, flat-topped: seeds chaffy and awned.
Mexico. *Cavan. ic. 4. t. 355. Jacq. hort. 3. t. 300.*

- pedata.* Herbaceous: leaves petioled, in pedate or finger-like divisions, very entire: seeds chaffy.
Mexico. *Cavan. ic.* 4. t. 356. Leaflets lanceolate.

1492. HYMENOPAPPUS. *Receptacle* naked: seeds crowned with many chaffy leaves: *calyx* many-leaved, spreading.

scabiosaus. Hymenopappus.

Carolina. *L'Herit. Monogr. tab.*

Stem angular, a little woolly: *leaves* doubly pinnatifid, with lanceolate segments, downy underneath: *corymb* terminal: *flowers* highly odorous.

1493. PTERONIA. *Receptacle* clothed with many-parted chaff: *down* somewhat feathery: *calyx* imbricate, with the scales carinate.

spinosa. Leaves subulate, spinescent, pungent.
The Cape. *Leaves* somewhat striate, spreading.

camphorata Leaves scattered and fascicled, filiform, ciliate: leaves of the calyx ferrulate: receptacle with somewhat fascicled hairs.

The Cape. *Pluk. mant.* 56. t. 345. f. 56. 2. Conyza.
Leaves flat: *flowers* terminal, solitary, yellow.

seriata. Leaves scattered and fascicled, filiform, somewhat ciliate at the base: leaves of the calyx entire: cells of the receptacle with many-parted chaff.
The Cape. *Aiton. kew.* p. 162.

echinata. Leaves alternate, oblong, ciliate: calyx thorny.
The Cape. *Thunb. prodr.* 143.

flexicaulis. Leaves united, linear-filiform, glabrous: leaves of the calyx ovate: stem flexuous: flowers terminal, 3 on a peduncle.

The Cape. *Linn suppl.* 355. *Thunb. prodr.* 143.

fastigiata. Leaves united, 3-sided, obtuse; calyx-scales ovate: flowers 3 together, sessile.

The Cape. *Thunb. prodr.* 143.

paniculata. Leaves opposite, filiform, glabrous: flowers panicled.

The Cape. *Thunb. prodr.* 143.

fasciculata. Leaves lanceolate, acute, viscid: flowers clustered.

The Cape. *Leaves* imbricate, erect, resinous.

- succulenta.* Leaves 3-sided, fleshy, entire, glabrous: flowers solitary.
The Cape. *Thunb. prodr.* 143.
- glabrata.* Leaves lanceolate, glabrous: calyx-scales ovate, membranaceous at the margin.
The Cape. *Linn. suppl.* 356. *Thunb. prodr.* 143.
- pallesc.* Leaves 3-sided, glabrous: stem panicled: calyx-scales ciliate.
The Cape. *Shrub* with whitish branches.
- aspera.* Leaves fascicled, linear, grooved, glabrous: flowers solitary: calyx-scales lanceolate, acute.
The Cape. *Thunb. prodr.* 143.
- minuta.* Leaves linear, vague: flowers axillary.
The Cape. *Leaves* alternate or opposite.
- cephalotes.* Leaves 3-sided, ciliate: calyx-scales ciliate in a jagged manner.
The Cape. *Leaves* ciliate on the edges and keel.
- villosa.* Leaves linear, obtuse, with bristly hairs: calyx-scales ovate, entire.
The Cape. *Linn. suppl.* 356. *Thunb. prodr.* 143.
- bifida.* Leaves lanceolate, hairy: stem decumbent: calyx-scales ovate entire.
The Cape. *Linn. suppl.* 356. *Thunb. prodr.* 143.
- cinerea.* Leaves lanceolate-ovate, with cinereous down: calyx scales ovate.
The Cape. *Linn. suppl.* 355. *Thunb. prodr.* 143.
- oppositifolia.* Leaves ovate, mealy or downy: calyx-scales ovate.
The Cape. *Breyn. prodr.* 3. *tab.* 17. *f.* 3. *Cyanus.*
Flowers terminal, sessile, yellow: *seeds* hairy.
- viscosa.* Leaves ovate, hairy, rough: calyx-scales viscid, entire.
The Cape. *Thunb. prodr.* 144.
- glauca.* Leaves ovate, glaucous: calyx oblong, with ovate entire scales.
The Cape. *Thunb. prodr.* 144.
- ciliata.* Leaves 3-sided, glabrous: calyx-scales ovate, ciliate.
The Cape. *Thunb. prodr.* 144.
- glomerata.* Leaves ovate 3-sided, glabrous: stem flexuous: calyx-scales oblong, glabrous.
The Cape. *Linn. suppl.* 356. *Thunb. prodr.* 144.
- retorta.* Leaves ovate, rough with hairs; reflected: calyx-scales ovate, entire.
The Cape. *Linn. suppl.* 356. *Thunb. prodr.* 144.

inflexa. Leaves ovate, hairy : calyx scales ob'long, membranaceous at the top : flower inflected.

The Cape. *Linn. suppl.* 356 *Thunb. prodr.* 144.

membranacea. Leaves ovate, downy : calyx-scales membranaceous at the margin.

The Cape. *Linn. suppl.* 357 *Thunb. prodr.* 144.

scariosa. Leaves ovate, glabrous : calyx-scales ovate, mucronate, membranaceous:

The Cape. *Calyx scales* scarious at top : flowers yellow.

Porophyllum Leaves pinnatifid, obtuse, ciliate-toothed.

Mexico. *Cavan. ic.* 3 *tab.* 225 Leaves alternate, sessile, Outer scales of the *calyx* setaceous pinnatifid.

1494. STÆHELINIA. *Receptacle* with very short chaff : down feathery : *antheræ* tailed at the base : *calyx* hemispherical, imbricate.

dubia. Leaves sessile, linear, denticulate, downy underneath : inner calyx-scales lanceolate, elongated.

Spain, Italy. *Ger. prov.* 109. t. 6 Down united.

arborescens. Leaves petioled, elliptic, obtuse, very entire, silky-downy underneath.

Crete. *Schreb. dec.* 1. t. 1. *Alp. exot.* t. 32.

Down branched and feathery : *antheræ* toothed.

fruticosa. Leaves lanceolate, obtuse, tapering into the petiole, very entire, glabrous.

Levant. *Lob. ic.* 548. Cyanus.

hastata. Shrubby : leaves halbert-shaped, hoary, sessile, Arabia felix. *Vahl. symb.* 1. p. 70. Down ferruginous

ilicifolia. Arborecent : leaves opposite, on very short petioles, heart-shaped, toothed, lucid above, downy underneath.

New Granada. *Smith. ic. ined. tab.* 71.

spinosa. Shrubby : leaves subulate, spinescant, with a small spines each side at the base.

Egypt. *Vahl. symb.* 1. p. 69. Leaves pungent.

Chamaepeuce. Leaves linear, crowded, very long, revolute at the margin, hoary underneath : branches downy.

Crete. *Pluk. alm.* t. 94. f. 3. *Alp. exot.* t. 76.

imbricata. Leaves ovate, mucronate, imbricate.

The Cape. *Leaves* pointed : *calyx* turbinate.

corymbosa. Leaves wedge-form, toothed, downy underneath : flowers panicked.

The Cape. Down white, longer than the calyx.

1495. LACHNOSPERMUM. *Receptacle* villous : seeds wrapped in the down : calyx cylindrical, imbricate.

ericæfolium. Lachnospermum.

The Cape, *Stæbelina fasciculata*. Thunb. prodr. 143.

Leaves long, fascicled, cylindrical, obtuse, downy : flowers solitary or in pairs, in the tops of the branchlets : calyx downy ; the scales ending in a long spreading point.

1496. HAYNEA, *Receptacle* chaffy, fleshy : down simple : calyx ovate, imbricate.

edulis.

Haynea.

Guinea. Aubl. Guian. 2. p. 800. t. 316. Pacourina.

Stem herbaceous : leaves alternate, glabrous, glaucous, oblong-ovate, ferrate : flowers sessile, blue.

1498. CEPHALOPHORA. *Receptacle* naked hemispherical : seeds crowned with many-leaved chaff : calyx many-leaved, reflected.

glauca.

Cephalophora.

Chili. Cavan. ic. 6. p. 80. tab. 599.

Stem herbaceous, striate : root-leaves oblong-ovate ; stem-leaves linear, alternate, glaucous : flowers terminal, solitary.

1499. CHRYSOCOMA. *Receptacle* naked : down simple : calyx hemispherical, imbricate : style hardly longer than the florets.

A. Shrubs or undershrubs.

Comaurea. Leaves linear, straight, glabrous, decurrent by the back.

The Cape. Pluk. alm. t. 327. f. 2. Conyza.

patula.

Leaves linear, glabrous : branches divaricate.

The Cape. Leaves obtuse : flowers nearly sessile.

cernua.

Leaves linear, recurved, roughish : flowers drooping during impregnation.

The Cape. Comm. Hort. 2. t. 45. Coma aurea.

microphylla. Leaves cylindrical, recurved, glabrous.

The Cape. Thunb. prodr. 142.

- ciliaris*. Leaves linear, straight ciliate: branches pubescent.
The Cape. *Comm. Hort.* 2. tab. 48.
- montana*. Leaves oblong, very entire: flowers solitary.
Horeb. *Vah. symb.* 1. p. 70. Leaves villous.
- tomentosa*. Leaves and branches downy.
— Branches whitish: leaves straight.
- nivea*. Leaves linear lanceolate, downy, flat: corymbs terminal
f. file.
The Cape. *Jacq. hort. Schænb.* 2. p. 11. t. 147.
- scabra*. Leaves lance ovate, recurved, with denticulate serratures:
peduncles pubescent.
The Cape. *Dill. Elieb.* 104. t. 88. f. 103. Conyza.
- denticulata*. Leaves oblong; tapering to the base, denticulate, undulate.
The Cape. *Jacq. hort.* 3. t. 376. Glabrous.

B. *Herbaceous.*

- undulata*. Leaves hearted, lanceolate, undulate.
The Cape. *Thunb. prodr.* 142.
- purpurea*. Leaves elliptic-lanceolate, slightly ferrate, pubescent: pa-
nicle terminal, corymbed.
Tanna Island. *Forst. prodr.* 286.
- Linofyris*. Leaves linear, glabrous: calyx lax.
Europe. *Col. ecph.* 1. p. 81. tab. 82.
- biflora*. Panicked: leaves lanceolate, 3-nerved, dotted, naked.
Siberia. *Gmel. Sib.* 2. t. 82. f. 1. After.
Flowers with or without ray, white or blue.
- villosa*. Leaves lanceolate, villous: calyx close.
Siberia, Hungary. *Gmel. t.* 82. f. 2. *Wald. Hung.* t. 58.

1500. TARCHONANTHUS. *Receptacle* villous:
seeds wrapped in down: calyx 1-leaved, half 7-
cleft, turbinate.

- camphoratus*. Leaves oblong, very entire, downy underneath.
The Cape. *Pluk. alm.* t. 174. fig. 1.
- ellipticus*. Leaves elliptic, denticulate, downy underneath.
The Cape. *Thunb. prodr.* 145.
- lanceolatus*. Leaves elliptic, very entire, glabrous.
The Cape. *Thunb. prodr.* 145.

- dentatus*. Leaves oblong, very entire and toothed, obscurely downy underneath.
The Cape. *Plant* not odorous.
- ericoides*. Leaves acerose : calyx 4-leaved.
The Cape. *Flowers* crowded, lateral.
1501. CALEA. *Receptacle* chaffy : *down* simple : *calyx* imbricate.
- jamaicensis*. Flowers about 3-together, peduncled : leaves ovate-oblong, serrate, petioled.
Jamaica. *Sloan. Jam. 1. p. 257. t. 151. f. 3. Conyz.*
Down rough, as long as the flowers,
- aspera*. Flowers solitary, peduncled, axillary : leaves oblong, triply nerved, unequally serrate, rough.
America. *Jacq. ic. rar. 3. tab. 583.*
- oppositifolia*. Corymbs clustered : peduncles very long : leaves lanceolate : stem herbaceous.
Jamaica. *Seeds* naked : inner-chaff longer.
- Amellus*. Flowers somewhat panicled : calyx very short : seeds naked : leaves ovate-lanceolate petioled.
Jamaica. Probably the same as *Bidens scandens*.
- lobata*. Corymbs crowded : leaves alternate ; upper-ones ovate-lanceolate ; lower-ones toothed in a halbert-shaped manner, sinuate-serrate.
Jamaica. *Sloan. Jam. 1. p. 260. tab. 152. f. 4.*
- scoparia*. Flowers solitary, terminal, sessile : leaves glabrous alternate, linear, obtuse : stem shrubby, with angular branches.
Jamaica. *Brown. Jam. 317. t. 34. f. 4. Chrysocoma*
- pinifolia*. Flowers somewhat umbelled, terminal, crowded : leaves nearly glabrous, alternate, linear, revolute at the margin : stem shrubby ; branches pubescent.
New Zealand. *Forst. prodr. 4. 288.*
- leptophylla*. Flowers somewhat umbelled, terminal : leaves in fours, spreading, linear, obtuse, revolute at the margin, downy underneath : stem shrubby ; branches downy.
New Zealand. *Forst. prodr. 287* Young leaves imbricate.
1502. CÆSULIA. *Receptacle* chaffy : *seeds* involved in the chaff : *down* 0 : *calyx* 3-leaved.
- axillaris*. Leaves lanceolate, tapering to the base, serrate, alternate.
East Indies. *Roxb. Coromand. 1. p. 64. tab. 93.*

radicans. Leaves lanceolate, tapering to the top, very entire, opposite. Guinea. *Willd.* 3. p. 1797. Stem creeping and rooting.

1503. SANTOLINA. *Receptacle* chaffy: down o:
calyx imbricate, hemispherical. *Lavender-cotton.*

Chamæcy-parissus. Peduncles 1-flowered: leaves hoary, toothed 4-ways, the teeth obtuse: branches downy: calyx pubescent.
South of Europe. *Moris.* 3. *sect.* 6. *tab.* 3. *f.* 12.

squarrosa. Peduncles 1-flowered: leaves hoary, toothed 4-ways; the teeth subulate and spreading: branches downy: calyx glabrous.
Spain. *Moris.* *hist.* 3. *sect.* 6. *t.* 3. *f.* 17.

viridis. Peduncles 1-flowered: leaves glabrous, toothed 4-ways; the teeth subulate and straight: branches and calyx glabrous.
Spain. *Plant* wholly glabrous.

rosmarinifolia. Peduncles 1-flowered: leaves linear; lower-ones somewhat pubescent and tubercled on the margin; upper-ones flat, very entire, glabrous: branches and calyx glabrous.
Spain. *Moris.* *hist.* 3. *sect.* 6. *t.* 3. *f.* 22.

* *maritima.* Peduncles corymbd: leaves oblong, obtuse, crenate, very downy.
Sea coast. *Engl. Bot.* *t.* 141. *Moris.* *f.* 6. *t.* 4. *f.* 47.

fragrantissima. Flowers corymbd: leaves ovate, slightly crenate.
Egypt. *Vahl.* *symb.* 1. p. 70. *Plant* villous.

alpina. Peduncles 1-flowered: leaves doubly pinnate: stems simple.
Italy. *Mich.* *gen.* *t.* 27. *Female-florets* none.

anthemoides Peduncles 1-flowered: leaves doubly pinnate: stem much branched, villous.
Spain, Italy. *Peduncles* terminal.

1504. BALSAMITA. *Receptacle* naked: down o:
calyx imbricate.

grandiflora. Stem herbaceous, 1-flowered, simple: leaves ferrate; radical-ones obovate; those of the stem lanceolate, sessile, cut-ferrate at the base.
Barbary. *Desfont.* *Ad. Par.* 1. p. 1. *tab.* 1.

virgata. Stem herbaceous, branched at the base; the branches 1-flowered: leaves sessile, lanceolate, ferrate.
Nice, *Jacq.* *obs.* 4. *t.* 81. *Cotula grandis.* *Sp. pl.* 1257.

Ageratifolia Stem shrubby: leaves obovate, ferrate, sessile, crowded: flowers somewhat corymbed.

Chrysanthemum flosculosum. *Sp. pl.* 1255.

Crete. *Moris. hist.* 3. f. 6. t. 9. f. 16. *Alp. exot.* t. 326.

vulgaris. Stem herbaceous: leaves elliptic, toothed; lower-ones petioled; upper-ones sessile and appendaged at the base: flowers corymbed.

Tanacetum Balsamita. *Sp. pl.* 1184.

Italy, Switzerland. *Blackw.* t. 98.

1505. ATHANASIA. *Receptacle* chaffy: seeds crowned with very short bristly chaff: *calyx* imbricate:

crenata. Flowers solitary, terminal, leaves linear.
The Cape. *Scales* of the calyx crenate.

punctata. Leaves roundish, glabrous, dotted: flowers terminal sessile.
The Cape. *Petiv. gaz. tab.* 81. f. 6. *Tanacetum.*

capitata. Leaves ovate, villous: flowers terminal, nearly sessile.
The Cape. *Moris. hist.* 3. f. 6. t. 3. f. 48. *Chrysanthemum.*

scabra. Leaves ovate, acute, rough: flowers terminal, solitary.
The Cape, *Thunb. prodr.* 144.

pubescens. Leaves obovate-lanceolate, obtuse, villous: umbels terminal: branches villous.
The Cape. *Comm. Hort.* 2. tab. 47.

canescens. Leaves oblong, acute, downy: umbels terminal.
The Cape. *Cavan. ic.* 1. p. 2. t. 3. *A. lanuginosa.*

glabra. Leaves oblong, obtuse, glabrous: umbels terminal.
The Cape. *Thunb. prodr.* 144.

annua. Corymbs simple, close: leaves pinnatifid, toothed.
2. Leaves deeply toothed, 3-cleft at the tip.
Africa. *Herm. Lugdb.* t. 227. Down as large as the floret.

dentata. Corymbs compound: leaves recurved: lower ones linear, toothed; upper-ones ovate, ferrate.
The Cape. *Comm. rar.* t. 41. *Coma aurea.*

aspera. Corymbs compound: leaves ovate, acute, reflected, 5-toothed.
The Cape. *A. lævigata* *Sp. pl.* 1181.

quinquedentata. Leaves ovate, recurved, 5-toothed: flowers somewhat umbelled.
The Cape. *Thunb. prodr.* 145.

- trifurcata.* Leaves wedge-form, about 3-lobed: flowers umbelled.
The Cape. *Comm. hort.* 2 p. 97. *tab.* 49.
- virgata.* Leaves wedge-form; lower ones pinnatifid-cut; upper-ones
3 or 4-toothed: flowers umbelled.
The Cape. *Jacq. hort. schænb.* 2 p. 11. *tab.* 148.
- hirsuta.* Leaves linear, cut: panicle compound: stem villous.
The Cape. *Thunb. prodr.* 144.
- tomentosa.* Leaves linear, downy: panicle compound.
The Cape. *Linn. suppl.* 361. *Thunb. prodr.* 144.
- flexuosa.* Leaves linear, acute, glabrous: flowers panicled: stem
flexuous.
The Cape. *Thunb. prodr.* 144.
- filiformis.* Leaves linear-filiform, glabrous: flowers panicled.
The Cape. *Linn. suppl.* 361. *Thunb. prodr.* 145.
- crithmifolia.* Leaves 3-cleft, with linear glabrous divisions: flowers
somewhat-umbelled.
The Cape. *Mill. fig. t.* 227. *f.* 2. *Comm. Hort.* 2. *tab.* 50.
- parviflora.* Leaves pinnate, with linear glabrous leaflets: panicle de-
compound.
The Cape. *Jacq. hort.* 2. *t.* 149. *Comm. hort.* 2. *t.* 57.
- scclinata.* Leaves pinnate, with linear glabrous leaflets: panicle com-
pound.
The Cape. *Linn. suppl.* 361. *Thunb. prodr.* 145.
- pinnata.* Leaves linear, cut-pinnate, downy: panicle globular.
The Cape. *Linn. suppl.* 361. *Thunb. prodr.* 145.
1506. PENTZIA. *Receptacle* naked: *seeds* crown-
ed with a jagged membranaceous margin: *calyx*
imbricate, hemisphærical.
- strobilifer-* Pentzia.
mis. The Cape. *Curt. Magaz. t.* 212. *Tanacetum.*
Branches silky-downy: *leaves* crowded, wedge-form, unequally
crenate at the tip: *umbel* terminal.

ORDER II. POLYGAMIA SUPERFLUA.

1507. TANACETUM. *Receptacle* naked: *seeds*
crowned with a slight margin: *calyx* imbricate,
hemisphærical: *florets* of the ray obsolete or 3-
cleft; sometimes wanting. *Tansy.*

- vestitum.* Leaves filiform triangular, imbricate: panicle terminal.
The Cape. *Thunb. prodr.* 147.
- longifolium.* Leaves linear filiform: raceme terminal, flat-topped.
The Cape. *Thunb. prodr.* 147.
- linifolium.* Leaves lanceolate, channelled: raceme terminal, flat-topped.
The Cape. *Thunb. prodr.* 147.
- axillare.* Leaves united, linear-filiform: flowers axillary, sessile.
The Cape. *Thunb. prodr.* 147.
- suffruticosum.* Leaves pinnate, with linear toothed pubescent leaflets: corymb flat-topped, leafy at the base: stem somewhat shrubby.
The Cape. *Comm. Hort.* 2 t. 100. Abrotanum.
- sibiricum.* Leaves pinnate, with linear-filiform very entire leaflets: corymb flat-topped, glabrous.
Siberia. *Gmel. Sib.* 2. t. 65 f. 2. Leaflets often 2 or 3-cleft.
- argenteum.* Leaves silky-downy, pinnate; leaflets lanceolate and slightly toothed at top: corymb terminal.
Amenia. *Willd. Ach.* 51. t. 2. f. 4.
- angulatum.* Leaves pinnatifid, with lanceolate serrate segments: corymb contracted: calyx angular.
Levant. *Willd. Ach.* t. 2. f. 3. Receptacle slightly chaffy.
- incanum.* Leaves hoary, pinnate, with crowded finger-parted leaflets: corymbs contracted, somewhat panicked.
Levant. *Flowers* yellow.
- colutoides.* Leaves tooth-pinnate, pointed; stem much branched: flowers somewhat panicked.
The Cape. *Leaflets* with 7 or 9 teeth: *corol* globular.
- orientale.* Leaves silky, hoary; radical-ones pinnate, with 3-parted linear-filiform acute leaflets; stem-leaves 3-parted, lanceolate: panicle a clustered corymb.
Levant. *Willd.* 3 p. 1812. Calyx downy.
- annuum.* Root-leaves doubly pinnate; stem-leaves crowded, pinnate, pubescent, with linear acute mucronate leaflets: corymbs flat-topped.
France, Spain. *Mill. fig. tab.* 27. f. 1. Santolina.
- obtusum.* Leaves glabrous, doubly pinnate, with linear obtuse segments: flowers solitary, glabrous.
The Cape, *Thunb. prodr.* 147.

grandiflorum Leaves villous, doubly pinnate, with linear acute segments: flowers solitary, downy.

The Cape. *Thunb. prodr.* 147.

monanthos. Stems quite simple, 1-flowered, as long as the leaves.
Levant. *Leaves* doubly pinnate; *flowers* terminal.

multiflorum. Leaves villous, doubly pinnate: segments of the leaves acute, panicle compound, flat-topped.

The Cape. *Thunb. prodr.* 147.

myriophyllum. Leaves downy, doubly pinnate; segments of the stem-leaves toothed, of the radical-ones entire.

Levant. *Achillea bipinnata*. *Sp. pl.* 1265.

* *vulgare*. Leaves doubly pinnatifid, deeply ferrate.

Watt. *Engl. Bot. t.* 1229. *Woodw. t.* 115 *Blackw. t.* 464.

1508. ARTEMISIA. *Receptacle* naked or villous: down 0: *calyx* imbricate, with rounded connivent scales: *florets* of the margin subulate, very entire.

A. Shrubs or undershrubs.

vermiculata Leaves linear-subulate, acerose, spreading, glabrous: panicle racemed; flowers nearly sessile.

The Cape. *Breyn. cent. p.* 24. *t.* 12. *Houtt. syst. 4. t.* 30. *f.* 1.

Leaves downy above: *flowers* downy.

ambigua. Leaves linear, obtuse, rather erect, acerose, silky: flowers spiked, sessile: inmost scales of the calyx coloured.

The Cape. Inner scales of the *calyx* scarious.

judaica. Leaves obovate, obtuse, lobed, small: flowers panicled, pedicelled.

Judæa. *Pluk. alm. 4. t.* 73. *f.* 1. Plant pubescent.

valentina. Leaves hoary; lower-ones pinnate, with palmate leaflets; upper-ones palmate, sessile; floral-ones simple, crowded: flowers panicled, sessile.

Valentia. *A. æthiopica*. *Sp. pl.* 1184. Shrub downy.

aragonensis. Leaves snowy, silky, doubly-pinnatifid and palmate; floral-ones simple: flowers panicled, sessile: calyx downy.

Spain. *Affo. synops. arrag. 17. tab.* 8. *f.* 1.

contra. Leaves linear, palmate, minute: panicle racemed: flowers sessile.

Persia. Shrub white downy: leaves minute.

- capillaris.* Leaves simple, capillary.
Japan. Stem reddish, glabrous: leaves glabrous.
- Abrotanum.* Stem stiff: lower-leaves doubly pinnate; upper-ones pinnate; leaflets capillary: calyx pubescent, hemispherical.
Southernwood.
South of Europe. *Woodv. t. 119. Blackw t. 555.*
- procera.* Stem branched, spreading: all the leaves doubly-pinnate, capillary: calyx glabrous, hemispherical.
South of Europe. *Willd. 3. p. 1819.*
- tenuifolia.* Stem stiff: leaves doubly-pinnate, capillary: floral-ones simple: calyx oblong.
East Indies, China. *Dill. Elb. 37. tab. 33.*
- odoratissima* Stem decumbent: leaves doubly-pinnate, subulate: flowers crowded, in racemed panicles.
Barbary. *Desfont. Atl. 2. p. 263.* Stem glabrous.
- afra* Leaves downy underneath, doubly pinnatifid, with lanceolate obtuse segments: panicle pointing one way: flowers nodding.
The Cape. *Willd. 3. p. 1820.* Leaves green above.
- arborescens.* Leaves silky, cinereous, triply-pinnatifid, with linear segments: flowers globular: flowering branchlets simple.
Italy, Barbary. *Lob. ic. 753.*
- argentea.* Leaves silky, white, doubly pinnatifid, with lance-linear leaflets: flowers globular: flowering-branchlets wand-like.
B. *Herbaceous, with the stem quite simple: flowers racemed.*
- glacialis.* All the leaves palmate and many-cleft, silky-white: flowers terminal, clustered, sessile, globular.
South of Europe. *Jacq. Auf. 5 app. t. 38. All. Ped. t. 8. f. 3.*
- mutellina.* All the leaves palmate and many-cleft, silky-white: flowers axillary, oblong; the lower-ones peduncled, uppermost sessile.
South of Europe. *Jacq. coll. 2. t. 7. f. 1—3. All. Ped. t. 9. f. 1.*
- splendens.* All the leaves palmate and many-cleft, silky hoary: flowers axillary, globular, all peduncled: calyx-scales obtuse: florets hairy.
Armenia. *Willd. 3. p. 1822.* Calyx-scales downy.
- lanata.* All the leaves palmate and many-cleft, silky-white, acute: flowers axillary, globular; lower-ones peduncled, uppermost sessile: calyx-scales acute: florets woolly.
Spain. *Willd. 3. p. 1823.* Calyx silky-downy.

- caucajica*. All the leaves palmate and many-cleft, silky-white, acute : peduncles axillary, spiked : flowers globular, sessile.
Caucasus. *Willd.* 3. p. 1823. Calyx-scales obtuse.
- alpina*. Leaves palmate and many-cleft, silky-white ; upper floral-ones simple : peduncles axillary, 1-flowered, nodding : flowers globular.
Siberia. *Willd.* 3. p. 1824. Calyx-scales obtuse.
- spicata*. Leaves hoary-silky ; radical-ones palmate and many-cleft ; stem-leaves pinnatifid ; uppermost linear, very entire, obtuse : flowers axillary, the lowermost peduncled.
Alps. *Jacq. Aust.* 5. app. t. 34. *All. Ped.* t. 8. f. 1.
- pectinata*. Leaves glabrous, pectinate in a pinnate-manner, with linear-filiform leaflets : peduncles axillary, 4-flowered : calyx-scales scarious, shining.
Siberia. *Pall. it.* 3. app. n. 130. t. H. b. f. 2.
- ranacérifolia*. Leaves somewhat pubescent, doubly pinnatifid, with linear-lanceolate pointed very entire segments : raceme naked, terminal : flowers nodding.
South of France. *Allion. Pdem.* t. 10. f. 3.
- insipida*. Leaves somewhat silky, pinnate ; the leaflets linear, palmate and many-cleft : spikes axillary, sessile.
Dauphiny. *Vill. Delph.* 3. p. 249. tab. 35.
C. *Herbaceous : stem more or less branched : flowers panicled : leaves compound.*
- dentata*. Leaves glabrous ; lower-ones doubly pinnatifid ; upper-ones pinnate, with linear nearly entire leaflets : flowers panicled, nodding.
Siberia. *Willd.* 3. p. 1826. Calyx scales membranous.
- Santonica*. Stem-leaves pinnate, linear, glabrous : those of the branches undivided : spikes leaning one way, reflected : flowers nearly sessile, 5-flowered.
Tartary, Persia. *Wood.* t. 123. *Gmel. Sib.* 2. t. 51.
- scoparia*. Stem-leaves glabrous, pinnate, setaceous ; radical-ones silky, pinnate and many-cleft : stem erect : branches ramulous : flowers ovate, peduncled, nodding.
Hungary. *Waldst. Kitaib. pl. rar. Hung.* 1. tab. 65.
- * *campestris* Stem-leaves glabrous, pinnate, setaceous ; radical-ones hoary, pinnate, with 3-cleft segments : stem pro-cumbent, branched, wand-like : flowers ovate peduncled.
Dry heaths. *Engl. Bot. tab.* 338.

- herbacea*. Stem-leaves glabrous, triply pinnate, filiform: stem erect, paniced: flowers globular, peduncled.
Siberia. *Willd.* 3. p. 1828. Branch-leaves pinnate.
- pauciflora*. Stem-leaves pubescent, pinnate or 3 cleft, filiform: stem ascending, slightly divided: panicle stiff, a little leaning to one side: flowers oblong, nearly sessile, erect, 3 or 4-flowered.
Siberia. *Gmel. Sib.* 2. p. 116. *tab.* 52. *f.* 1, 2.
- anethifolia*. Stem-leaves glabrous, mostly doubly pinnate, capillary; petioles longer than the leaf: stem ascending: flowers paniced, globular, peduncled, nodding.
Siberia. *Gmel. Sib.* 2. t. 54. A. herbacea.
- palustris*. Stem-leaves glabrous, pinnate, with very long filiform remote leaflets: stem ascending, paniced: flowers globular, erect, sessile.
Siberia. *Gmel. Sib.* 2. p. 119. *tab.* 55. Receptacle naked.
- camphorata*. Stem-leaves nearly glabrous, pinnate, with trifid linear leaflets; floral-ones undivided, linear: stem erect: panicle wand-like: flowers globular, peduncled, nodding.
South of Europe. *Vill. Delph.* 3. p. 242. Receptacle villous.
- crithmifolia*. Stem-leaves glabrous, somewhat fleshy, pinnate, with simple and bifid linear obtuse leaflets; floral-ones undivided, linear: stem ascending: flowers oblong, peduncled, erect.
Portugal, France. Receptacle naked.
- saxatilis*. Stem-leaves a little hoary, pinnate, linear-filiform; floral-ones undivided, linear: stem ascending, branched, paniced: peduncles somewhat corymbed: calyx angular, nodding.
Hungary. *Waldst. Kitaib. pl. rar. Hung.*
- nutans*. Stem-leaves pinnate or trifid, linear; those of the branches undivided and linear: stem erect, paniced: branches nodding, leaning one way: flowers oblong, peduncled.
Country of the Kalmacs. *Willd.* 3. p. 1831. Receptacle naked.
- glauca*. Leaves glaucous, pubescent; the lowermost pinnate, with linear-lanceolate segments; the rest simple, linear-lanceolate: stem erect, paniced, stiff: flowers globular, peduncled, nodding.
Siberia. *Willd.* 3. p. 1831. Receptacle naked.

- salsoloides*. Stem-leaves glabrous, 3-parted, linear; those of the branches linear, acute: stem suffruticose, with simple erect branches: peduncles axillary, about 3-flowered; flowers oblong, erect.
Siberia. *Willd.* 3. p. 1832. Calyx-scales scarious, obtuse.
- nitrosa*. Leaves hoary; those of the stem pinnate, linear, obtuse: of the branches linear: stem suffruticose, branched, panicled, ascending: flowers oblong, nearly sessile,
Siberia. *Gmel. Sib.* 2. t. 50. f. 1.
- monogyna*. Leaves somewhat hoary; radical ones doubly pinnate; stem-leaves pinnate, clasping, with linear segments; those of the branches simple, linear: stem ascending, panicled: calyx oblong, erect, peduncled.
Hungary. *Waldst. Kitzeb. Hung.* 1. t. 75. Receptacle naked.
- palmata*. Leaves somewhat hoary; lowermost pinnate, with linear obtuse 3-parted segments: upper-ones pinnate; floral-ones undivided, linear, obtuse: stem suffruticose: calyx oblong, sessile, erect, 2 or 3-flowered.
South of France, Spain. *Lamarck. encycl.* 1, p. 226.
- * *maritima*. Leaves white-downy; lower-ones pinnate and 3-parted, obtuse; uppermost linear, simple, obtuse: stem ascending, with drooping branchlets: flowers oblong, downy, sessile.
Sea coasts. *Engl. Bot.* t. 1081. *Woodw.* t. 122.
- * *salina*. Leaves hoary; radical-ones pinnate, with 3-parted linear-filiform segments; stem-leaves pinnate, with linear-filiform segments; uppermost linear, simple: stem erect, panicled, with nearly erect branchlets: flowers oblong, peduncled; nodding.
Sea coast. *Willd.* 3. p. 1834. Plant not odorous.
- gallica*. Leaves hoary: radical-ones doubly pinnate, filiform; upper-ones pinnate, linear-filiform: stem erect, downy, with erect branches: flowers oblong, nearly sessile, erect.
France. *Willd.* 3. p. 1835. Stem white-downy.
- fragrans*. Leaves hoary; radical-ones doubly pinnate, linear-filiform; stem-leaves pinnate, crowded linear, obtuse; those of the branches pinnate, sessile; floral-ones simple, linear, shorter than the flower: flowers oblong, erect, sessile.
Armenia. *Willd. sp. pl.* 1835. Receptacle naked.

- austriaca.* Leaves hoary-filky; lower ones pinnate, with 5-parted linear segments: those of the branches 3-parted and simple: stem erect, paniced: flowers peduncled, roundish, nodding.
Austria. *Jacq, Aust. 1. tab. 100.* Receptacle naked.
- orientalis.* Leaves hoary-filky: lower-ones pinnate, with 3-parted segments; upper-ones pinnate, with linear entire segments; stem erect: panicle wand-like: flowers peduncled, roundish, nodding.
Armenia. *Willd. 3. p. 1836.* Branches erect, appressed,
- wallsiaca.* Leaves downy, snowy; those of the stem doubly pinnate, linear-filiform; floral-ones simple: stem ascending: panicle simple: flowers oblong, sessile, erect.
South of Europe. *Receptacle naked.*
- taurica.* Leaves hoary; lower-ones doubly pinnate; upper-ones pinnate, with linear-filiform segments: stem erect: flowers oblong, sessile.
Tauria. *Willd. 3. p. 1837.* Receptacle naked.
- Lerchiana.* Leaves hoary; lower-ones doubly pinnate, with linear obtuse segments tapering to the base; upper-ones sessile, pinnate; floral-ones simple: stem suffruticose, ascending: flowers subglobular, sessile, erect.
Siberia. *Gmel. Sib. 2. p. 114. tab 50. f. 2, 3.*
- frigida.* Leaves hoary, pinnate, with 3-parted linear acute segments; floral-ones pinnate or 3-parted: stem ascending: flowers globular, nodding.
Dauria. *Willd. 3. p. 1838.* Receptacle villous.
- rupestris.* Leaves somewhat pubescent; those of the stem pinnate, with linear acute segments; floral-ones simple: stem ascending, branched: flowers globular, peduncled, nodding.
Denmark. *It. Gott. t. 285. Flor. Dan. 801.*
Calyx green, with a white border: receptacle villous.
- borealis.* Leaves silky-hoary; those of the stem pinnate, with linear acute segments; floral-ones simple: stem ascending, slightly branched: flowers globular, peduncled, nearly erect.
Siberia. *Pall. it. 3. app. t. II. b. f. 1.* Receptacle hairy.
- sericea.* Leaves silky hoary; those of the stem pinnate, with 3-parted linear pointed segments; floral-ones pinnate: stem ascending, slightly branched: flowers globular, nodding.
Siberia. *Gmel. Sib. 2. t. 64. f. 1.* Receptacle hairy.

- repens.* Leaves silky-white, pinnate, with 3-parted linear acute segments; those of the branches pinnate; floral-ones simple: stem erect: flowers roundish, peduncled drooping.
Siberia. *Willd. 3. p. 1840.* Receptacle naked.
- pontica.* Leaves downy underneath; those of the stem doubly pinnate, with linear leaflets; of the branches simple: flowers roundish, peduncled, nodding.
Germany. *Blackw. t. 527. Ludw. ed. t. 26.* Receptacle naked.
- chamæmili-
folia.* Leaves glabrous; lower-ones triply pinnate; upper-ones doubly pinnate; leaflets linear, acute: stem erect: panicle wand-like: flowers globular, peduncled, nodding.
South of France. *Vill. Delph. 3. t. 35.* Receptacle naked.
- annua.* Leaves glabrous, triply pinnatifid; those of the branches doubly and simply pinnatifid; leaflets lanceolate: stem erect, paniced: flowers peduncled, nodding.
Siberia. *Ann. ruth. t. 193 f. 23.* Receptacle glabrous.
- biennis.* Leaves glabrous; radical-ones triply pinnate; lower-stem-leaves pinnatifid, upper-ones undivided and linear: stem stiff: flowers roundish, nearly sessile, erect.
New Zealand? *Jacq. ic. rar. 1. t. 172.* A. hispanica.
- laciniata.* Leaves hairy, triply pinnatifid: stem simple: panicle leafless: flowers globular, nodding.
Siberia. *Gmel. Sib. 2. t. 57.* Receptacle naked.
- canescens.* Leaves hoary, doubly pinnatifid, sessile, with lanceolate acute segments: stem erect, simple: panicle leafy: flowers globular, nodding.
Armenia. *Willd. 3. p. 1843.* Receptacle naked.
- armeniaca.* Leaves hoary underneath; radical-ones triply pinnatifid; those of the stem doubly pinnatifid, denticulate: stem slightly divided: panicle leafy: flowers peduncled, erect, roundish.
Armenia. *Willd. 3. p. 1844.* Receptacle naked.
- Abfin-
thizum.* Leaves silky-hoary; radical-ones triply pinnatifid, with lanceolate toothed obtuse segments; those of the stem doubly and simply pinnatifid; floral-ones oblong, obtuse, undivided: flowers globular, peduncled, nodding.
Wormwood.
Wastes. *Engl. Bot. t. 1230. Wooda. t. 120.* Receptacle hairy.

siwerhiana. Leaves a little hoary ; those of the stem doubly pinnatifid, with pointed segments ; floral-ones trifid or lanceolate, nearly as long as the branches of the panicle : flowers globular, peduncled, nodding : calyx scarious.

Siberia. *Willd. 3. p. 1845.* Receptacle hairy.

* *vulgaris.* Leaves downy underneath ; those of the stem pinnatifid, with lanceolate acute cut segments ; floral-ones undivided, linear-lanceolate, acute : flowers nearly sessile, oblong, erect : calyx downy. *Mugwort.*

Wastes. *Engl. Bot. t. 978. Woodv. t. 121.* Receptacle naked.

indica. Leaves downy underneath ; those of the stem pinnatifid, with oblong-lanceolate, slightly toothed acute segments : floral-ones undivided, linear : flowers sessile, oblong, erect : calyx glabrous.

East Indies. *Rumph. Amb. 5. t. 19 f. 2. Rheed. Mal. 10. t. 45.*
From the down is prepared the *Moxa* of the East.

D. *More or less shrubby : stem branched : leaves undivided.*

integrifolia. Leaves lanceolate, pointed, downy underneath : flowers ovate, nearly sessile, erect.

Siberia. *Gmel. Sib. 2. t. 48. f. 1, 2.* Recemes short.

japonica. Leaves glabrous, lanceolate, acute ; those of the stem trifid at top ; of the branches undivided : flowers roundish, peduncled, nodding.

Japan. *Thunb. jap. 310.*

* *cærulescens* Leaves hoary ; those of the stem lanceolate, very entire ; radical-ones variously cut : flowers oblong, peduncled, nodding. *Tarragon.*

Sea coast. *Moris. 3. sect. 6. t. 1. f. 5.* Receptacle naked.

Dracunculus Leaves glabrous, lanceolate ; tapering to both ends : flowers roundish, peduncled, erect.

Siberia. *Gmel. Sib. 2. t. 59. Blackw. t. 116.* Receptacle naked.

chinesis. Leaves hoary ; lower-ones wedge-form, obtuse, 3-lobed ; upper-ones linear, obtuse : flowers globular, peduncled, drooping.

China, Siberia. *Gmel. Sib. 2. t. 61. f. 1, 2. Pluk. amal. t. 353. f. 5.*

From the down is prepared the *Moxa* of the Chinese.

1509. GNAPHALIUM. Receptacle naked: down feathery or rough: calyx imbricate, with the marginal-scales rounded scarious and coloured: florets of the margin subulate. *Everlasting, Cud-weed.*

A. *Shrubby, with white flowers.*

- eximium.* Leaves sessile, ovate, crowded, erect, downy : corymb sessile.
The Cape. *Curt. Magaz. t. 300. Edw. av. t. 183.*
- crispum.* Leaves rough above, downy underneath: radical ones petioled, oblong; stem leaves clasping, undulate.
The Cape. *Flowers in a compound cyme.*
- arborescens.* Leaves sessile, linear, glabrous above, revolute at the margin: flowers nearly in heads: peduncles elongated.
The Cape. *Corymb contracted into a head.*
- proteoides.* Leaves lanceolate, silky-downy, crowded: corymb terminal: calyx-scales ovate, spreading.
Mauritius. *Lamarck. encycl. 2. p. 733.*
- grandiflorum.* Leaves clasping, ovate-oblong, 3-nerved, woolly above, downy underneath, with callous points: corymb peduncled: calyx cylindrical.
The Cape. *Burm. Afr. t. 76. f. 1. Calyx silvery.*
- fruticans.* Leaves clasping, ovate-oblong, 3-nerved, acute, woolly-downy both sides: corymb contracted, nearly sessile: calyx oblong.
The Cape. *Calyx yellow on the outside.*
- congestum.* Leaves lanceolate, sessile, 3-nerved, naked above, woolly-downy underneath: corymb contracted into a head.
The Cape. *Willd. 3. p. 1872. Calyx downy at the base.*
- appendiculatum.* Leaves sessile, imbricate, lanceolate, woolly, terminated by a small lanceolate membranous scarious leaflet.
The Cape. *Stem leafless up to the cyme.*
- heliotropifolium.* Leaves lanceolate, 5-nerved, silky, reddish: corymb dense, sessile.
Bourbon. *Lamarck. encycl. 2. p. 734*
- domingense.* Leaves lanceolate, narrowed at the base, half clasping: flowers lateral and terminal: calyx clustered.
St. Domingo. *Lamarck. encycl. 2. p. 732. Calyx downy.*
- yuccaefolium.* Leaves linear-lanceolate, silky, 3-nerved, reflected: flowers corymbed.
Mauritius. *Lam. encycl. 2. p. 733. Calyx downy.*
- trinerve.* Leaves sessile, lanceolate, 3-nerved, silvery underneath: panicle corymbed, terminal, lax.
New Zealand. *Fost. prodr. 289.*

- coronatum.* Leaves sessile, lanceolate: corymbs compound; sessile; peduncles leafless: calyx crowned.
The Cape. *Burm. Afr.* 188. *tab.* 69. *fig.* 3.
Calyx dilated into a round glabrous snowy ray.
- patulum.* Leaves clasping, spatulate; downy, acute: corymb terminal: branches spreading.
The Cape. *Floral-leaves* linear.
- divaricatum.* Leaves clasping, guitar-shaped; spatulate; obtuse, downy: corymb and branches divaricate.
The Cape. *Breyn. prodr.* t. 18. f. 3. *Calyx* globular.
- discolorum.* Leaves sessile, lanceolate: calyx white; the lower-scales flesh-colour.
The Cape. *Burm. Afr.* t. 79. f. 4. Flowers clustered.
- asperum.* Leaves linear-subulate, mucronate, naked, rough: flower solitary; terminal; sessile.
The Cape. *Thunb. prodr.* 147. *Calyx* pubescent; purple.
- cephalotes.* Leaves linear-lanceolate; mucronate, revolute at the margin, downy underneath: flowers sessile, in terminal heads.
The Cape. *Pluk. phyt.* t. 410. f. 2. *Calyx* tipped with red.
- muricatum.* Leaves linear-lanceolate, mucronate, revolute at the margin, downy underneath: flowers in terminal clustered nearly sessile heads, with woolly involucre: inner calyx-scales toothed at top.
The Cape. *Involucres* 3 flowered: *calyx* white.
- hispidum.* Leaves linear-subulate, mucronate, revolute at the margin, ciliate with bristles: flowers in terminal clustered nearly sessile heads, with pubescent involucre: inner-calyx-scales obtuse.
The Cape. *Calyx* white, the scales rarely emarginate.
- divergens.* Leaves lanceolate, mucronate, revolute at the margin, downy underneath: flowers in terminal sessile clustered heads, with woolly involucre: inner-calyx-scales acute: branches divaricate.
The Cape. *Burm. Afr.* t. 79. f. 2. *Pluk. Amaltb.* t. 406. f. 6.
- fasciculatum.* Leaves lanceolate, mucronate, revolute at the margin, downy underneath, flowers corymbed, contracted: inner calyx-scales toothed at top.
The Cape. *Burm. Afr.* t. 79. f. 3. *Pet. gaz.* t. 82. f. 6.

fastigiatum. Leaves lanceolate, mucronate, revolute at the margin, downy underneath: flowers corymbed: inner calyx-scales acute.

The Cape. *Burm. Afr. t. 79. f. 1. Pet. gaz. t. 7. f. 3.*

polyanthos. Leaves linear-subulate, mucronate, revolute at the margin, downy underneath: corymb contracted: inner calyx-scales acute.

The Cape. *Thunb. prodr. 147.* Leaves fascicled, unequal.

birsutum. Leaves lanceolate, mucronate, rough-haired: flowers in heads, sessile.

The Cape. *Thunb. prodr. 148.* Branches downy.

seriphoides. Leaves small, fascicled, linear-subulate, downy above: flowers lateral.

The Cape. *Thunb. prodr. 144.* Flowers sessile.

milleflorum. Leaves oblong, obtuse, downy; corymbs flat-topped: flowers cylindrical.

The Cape. *Leaves hairy both sides: corol yellow.*

ericoides. Leaves sessile, linear: outer-calyx rude, inner-flesh colour.

The Cape. *Leaves remote minute.*

teretifolium. Leaves crowded, somewhat cylindrical: corymbs branched: outer-calyx cylindrical.

The Cape. *Burm. Afr. t. 77. f. 3. Pluk. alm. t. 308. f. 2.*

Calyx glabrous: leaves revolute, downy underneath.

umbellatum. Leaves fascicled, subulate, twisted: umbels simple, terminal, sessile.

The Cape. *Calyx fine red.*

cæspitosum. Leaves linear, acute, downy, crowded on the tops of the branches: flowers corymbed: calyx radiate, acute.

Mauritius. *Lamarck. encycl. 2. p. 734.*

multicaule. Leaves spatulate-lanceolate, downy, soft: corymbs in heads: calyx-scales acute, spreading.

Mauritius. *Lamarck. encycl. 2. p. 734.*

B. Shrubby with yellow flowers.

mucronatum. Leaves linear-subulate, silky, mucronate, crowded, erect: flowers peduncled, terminal: calyx-scales rounded.

The Cape. *Burm. Afr. t. 66 f. 3.* Calyx yellow.

Stæchas. Leaves linear: corymb compound: branches wand-like.

South of Europe. *Blackw. t. 438.* Goldilocks.

- ignescens.* Leaves somewhat lanceolate, downy, sessile : corymbs alternate, conglobate : flowers globular.
 — Heads of a good colour changing to red.
- microphyllum.* Stem ascending : leaves, obtuse, hoary-pubescent, revolute at the margin, undulate : flowers umbelled.
 Crete. Willd. 3. p. 1854. Inner calyx scales yellow.
- excisum.* Leaves wedge-form, obovate, downy, recurved and emarginate at top : flowers corymbed.
 The Cape. Thunb. prodr. 151. Calyx scales yellow.
- ferratum.* Leaves clasping, lanceolate, ferrate, naked above.
 The Cape. Burm. Afr. t. 76. f. 3. Calyx ferruginous.
- petiolatum.* Leaves ovate, very entire, petioled : flowers crowded, terminal.
 The Cape. Burm. Afr. t. 76. f. 2. Leaves woolly.
- fatujoides.* Leaves linear, acute, spreading : corymb lax, peduncled : calyx cylindrical, acute : flowers in fascicled heads.
 Mount Video. Lam. encycl. 2. p. 738. Calyx rufous.
- crassifolium.* Leaves broad lanceolate, somewhat petioled, coriaceous, downy : corymb compound : stem proliferous.
 The Cape. Calyx pale yellow : corol deeper yellow.
- maritimum.* Much branched : leaves lanceolate, acutish, sessile ; inner-scales of the calyx golden.
 The Cape. Burm. Afr. t. 77. f. 2. Flowers golden yellow.
- capitellatum.* Leaves somewhat clasping, linear-lanceolate, acute, downy underneath, spreading : corymb terminal, contracted.
 The Cape. Thunb. prodr. 150. Flowers reddish-yellow.
- repens.* Leaves linear : stem creeping, straight : branches erect, simple.
 The Cape. Stem angular : calyx obtuse, yellowish.
 C. Herbaceous, with yellow flowers.
- cylindricum.* Leaves sessile, oblong, downy : corymbs unequal : calyx glabrous, cylindrical, sessile.
 The Cape. Pluk. phyt. tab. 298. f. 4.
- orientale.* Leaves linear-lanceolate, hoary ; radical-ones obtuse ; stem-leaves acute : corymb compound : peduncles long.
 Africa. Moris. sect. 7. t. 10 fig. ult. Comm. hort. 2. t. 5.
- arenarium.* Leaves hoary, downy, obtuse ; radical-ones spatulate-lanceolate ; those of the stem linear-lanceolate : corymb compound.
 Europe. Flor. Dan. t. 641. Blackw. t. 524.
 Leaves revolute at the edge : calyx pale yellow.

- lavandulæ-folium.* Leaves snowy, woolly-downy, obtuse; radical-ones spatulate; of the stem linear-lanceolate: corymb terminal. America. Willd. 3. p. 1868. Plant viscid.
- candidissimum.* Leaves white, silky-down, linear-lanceolate, rather acute; corymb compound: calyx cylindrical. Near the Caspian Sea. Marsch. Cass. p. 119. n. 35.
- japonicum.* Stem erect: leaves linear-ensiform, snowy underneath: heads terminal. Japan. Thunb. Jap. 311. Leaves green above.
- rutilans.* Leaves lanceolate: corymb decomposed: stem branched on the lower part. The Cape. Dill. Elth. t. 107. f. 127. Elichrysum.
- imbricatum.* Leaves lanceolate, downy: scales of the calyx reflected: stem branched. The Cape. Burm. Afr. 226. tab. 80. f. 2.
- cymosum.* Leaves lanceolate, 3-nerved, glabrous above: raceme terminal: stem branched below. The Cape. Dill. Elth. 128. t. 127. f. 128. Elichrysum.
- nudiflorum.* Leaves sessile, lanceolate, 3-nerved, naked, reticulate with veins. The Cape. Pet. gaz. t. 82. f. 1. Elichrysum.
- pallidum.* Stem branched above: leaves linear-lanceolate, downy, very soft: flowers clustered. Mauritius. Lam. encycl. 2. p. 741. Leaves acute.
- * *luteo-album.* Leaves half-clasping, linear-lanceolate, somewhat repand, pubescent both sides; lower-ones obtuse; upper-ones acute: corymb clustered. Dry sands. Moris. bist. 3. sect. 7. tab. 11. f. 20.
- lanatus.* Woolly: leaves linear, oblong, mucronate and callous at the tip: corymb contracted: stem quite simple. New Zealand. Forst. prodr. 290.
- albescens.* Snowy-downy: leaves linear-lanceolate: stem erect, undivided below; branches terminal, flat-topped: flowers crowded, conic. Jamaica. Swartz. prodr. 112.
- pedunculare.* Leaves spatulate, somewhat clasping, downy underneath: calyx-scales rather acute. The Cape. Calyx yellowish.
- odoratissimum.* Leaves decurrent, obtuse, mucronate, downy both sides, flat. The Cape. Mill. fig. t. 131. f. 2. Pluk. alm. t. 173. f. 6.

cauliflorum. Stem branched at the base: simple: leaves subulate, downy: flowers axillary, sessile: calyx-scales acute.
Tunis. *Desfont. Atl. 2. p. 267*. Calyx shining.

lepteroïdes. Stem filiform, branched: leaves woolly, subulate-filiform: peduncles axillary, naked, 1-flowered, longer than the leaf.
Tunis. *Desfont. Atl. 2. p. 267*.

muscoïdes. Branched, diffuse: leaves spatulate, woolly: flowers terminal, clustered: calyx villous; the inner-scales longer and naked.
Barbary. *Desfont. Atl. 2. t. 231*. Calyx yellow.

D. *Herbaceous with white flowers.*

uniflorum. Stem quite simple: leaves ovate-lanceolate, crowded, somewhat imbricate, downy underneath: flower large, sessile, terminal.
Peru. *Lamarck. encycl. 2. p. 743*. Outer calyx downy.

sanguineum. Leaves decurrent, lanceolate, downy, flat, with a naked point at the end.
Egypt, Syria. *Rauw. it. t. 285*. Baccharis.

Oculus Catæ Prostrate: leaves ovate: flowers clustered, terminal: calyx clothed with thick wool.
The Cape. *Leaves* nearly naked, sessile.

fætidum. Leaves clasping, very entire, downy underneath: stem branched.
The Cape. *Moris. 3. sect. 7. t. 20 f. 32. Comm. hort. 2. t. 56*.

undulatum. Leaves decurrent, lanceolate, acute, undulate, downy underneath: stem branched.
Africa. *Dill. Elth. tab. 108. f. 230*. Elichrysum.

felinum. Leaves clasping, lanceolate, ferrate, rough, downy underneath: corymb naked: calyx undulately plaited.
The Cape. *Pluk. phyt. t. 298. f. 3. G. Crispum. Sp. pl.*

cheiranthifolium. Stem simple: leaves linear-lanceolate, acute, stiff, downy, undulately curled: calyx globular, clustered.
Mount Video. *Lam. encycl. 2. p. 743*. Calyx shining.

helianthemifolium. Leaves somewhat clasping, lanceolate: corymbs compound: calyx-scales somewhat plaited.
The Cape. *Volk. Norib. t. 194*. Leaves downy.

squarrosum. Leaves sessile, tongue-shaped, very downy: inner-calyx-scales subulate, recurved.
The Cape. *Jacq. fragm. t. 3. f. 4. Pluk. alm. t. 323. f. 1.*

- stellatum*. Leaves sessile, lanceolate, villous: calyx acute, flesh-coloured outwardly.
The Cape. *Burm. Afr. t. 80. f. 1.*
- tinclum*. Branched, diffuse: leaves obovate, villous: flowers terminal, clustered: calyx woolly; the inner-scales naked, reflected, coloured.
The Cape. *Calyx-scales* tip with red.
- notatum*. Branched, erect: leaves linear-spatulate, downy: flowers in clustered corymbs: calyx downy; the inner scales naked.
The Cape. *Burm. Afr. t. 80. f. 3.*
- rubellum*. Branched, erect: leaves oblong-obovate, downy: flowers corymbed: calyx-scales spreading.
The Cape. *Thunb. prodr. 150. Calyx red.*
- pygmaeum*. Erect: leaves linear-lanceolate, downy: flowers corymbed: inner-calyx scales longer erect.
The Cape. *C. Coronatum. Linn. suppl. 365.*
- auriculatum*. Erect: leaves linear-spatulate, hearted at the base, clasping, downy: flowers corymbed.
The Cape. *Burm. Afr. tab 78. f. 3.*
- spatulatum*. Decumbent: leaves wedge-obovate, retuse, downy: flowers terminal sessile.
The Cape. *Thunb. prodr. 151. Calyx white, obtuse.*
- denudatum*. Leaves spatulate, snowy-downy underneath, smooth above.
The Cape. *Stems prostrate: calyx white.*
- decalatum*. Procumbent. leaves oblong-ovate, woolly: flowers sessile, clustered: calyx woolly, radiate.
The Cape. *Thunb. prodr. 140. Leaves white.*
- prostratum*. Procumbent: leaves obovate, obtuse, downy: flowers sessile, clustered: inner calyx scales membranous.
The Cape. *Thunb. prodr. 150. Outer-scales pubescent.*
- obtusifolium*. Erect: leaves linear-lanceolate, rather acute, glabrous above, pubescent underneath: stem panicled, downy: corymbs terminal, contracted.
Virginia. *Abbot. inf. t. 9. Dill. Eub. t. 108 f. 131.*
- *margeriaceum*. Leaves linear-lanceolate, pointed, alternate: stem branched upwards: corymbs flat-topped.
Meadows. *Pet. H. Brit. tab. 18. f. 3.*

- piofellum*. Leaves lanceolate, 5-nerved, downy underneath: stem naked. flowers in heads.
The Cape. *Calyx* villous, with a white margin.
- plantagini-folium*. Shoots procumbent: corymb compact: flowers diœcious: inner-scales of the calyx elongated, obtuse, coloured.
Virginia. *Pluk. alm. 171. t. 348. f. 2.*
- * *dioicum*. Shoots procumbent: stem quite simple: root-leaves spatulate: corymb compact: flowers diœcious: inner-calyx-scales elongated, obtuse.
Heaths. *Eng. Bot. t. 267. Lightf. t. 20. f. 1.*
- alpinum*. Stem not shooting, quite simple: root-leaves lanceolate: flowers terminal, clustered, sessile: inner-calyx-scales elongated, acute, membranous.
Alps. *Flor. Dan. 335.* Leaves downy beneath.
- nodiflorum*. Stem wand-like, long, simple: leaves linear, downy: flowers axillary and terminal: calyx snowy, rather lax.
The Cape. *Pluk. alm. t. 31. f. 5.* Leaves downy both sides.
- indicum*. Stem much branched, diffuse: leaves lanceolate: corymbs unequal: calyx coloured within.
East Indies. *Pluk. alm. t. 187. f. 5.*
- purpureum*. Leaves linear-spatulate, downy underneath: stem erect, quite simple: flowers sessile, terminal and axillary.
America. *Dill. Elth. t. 109. f. 132.* Elichrysum.
E. *Filago-like.*
- * *sylvaticum*. Stem herbaceous, quite simple, erect: leaves lanceolate, tapering to both ends, woolly both sides: flowers spiked, sessile, axillary and terminal.
Mountains. *Engl. Bot. t. 913. Flor. Dan. t. 254.*
- * *reclum*. Stem herbaceous, erect, mostly simple: leaves linear-lanceolate, silky underneath: flowers spiked, sessile, axillary and terminal.
Pastures. *Eng. Bot. t. 124. Flor. Dan. t. 1229.*
- verticillatum*. Stem quite simple: flowers in whorls: leaves linear.
The Cape. *Plant and flowers cinereous.*
- spicatum*. Stems herbaceous, quite simple: flowers in whorls: leaves tufted, linear, revolute.
Egypt. *Pet. Gaz. t. 8. f. 12.* Filago.
- coarctatum*. Stem herbaceous, quite simple: leaves oblong-spatulate, hoary-downy underneath: flowers in clustered spikes.
Mount Video. *Lam. encycl. 3. p. 748.* Calyx reddish.

- americanum* Stem herbaceous, erect, branched: leaves obovate-spatulate, pubescent underneath: flowers in clustered spikes, axillary and terminal.
 Pennsylvania. *Willd.* 3. p. 1887.
- flachydisfolium.* Stems herbaceous, simple, hoary: leaves lanceolate, downy both sides: spike terminal, lax at the base.
 Mount Video. *Lamarck. encycl.* 2. p. 748.
- multicaule.* Stems herbaceous, quite simple, ascending: leaves linear-spatulate, acute, downy both sides: flowers in clustered spikes
 East Indies. *Willd.* 3. p. 1888. Calyx downy.
- * *supinum.* Stem herbaceous, simple, decumbent: leaves linear, acute, downy: flowers in a racemed head.
 Alpine mountains. *Eng. Bot. t.* 1193.
- pusillum.* Stem herbaceous, quite simple, nearly erect, about 3-flowered: leaves linear, acute, downy: shoots decumbent.
 Silesia. *Crock. Siles. n.* 1417. *tab.* 41. Filago.
- fuscum.* Stem herbaceous, erect, quite simple: leaves linear, acute, downy: flowers axillary, solitary, peduncled.
 Carniola. *Scop. carn. n.* 1048. *t.* 57. Calyx acute.
- declinatum.* Herbaceous: leaves linear-lanceolate: calyx with a white lanceolate ray.
 The Cape. *Stems* prostrate: *leaves* crowded, downy.
- falcatum.* Herbaceous, white downy: stem branched: leaves linear, obtuse, falcate, downy: spikes short, few flowered.
 Mount Video. *Lam. encycl.* 2. p. 749.
- retusum.* Herbaceous: leaves linear-spatulate, retuse, mucronate with a small bristle, naked: calyx cylindrical, axillary: flowers in clustered heads.
 Mount Video. *Lam. encycl.* 2. p. 749.
- * *uliginosum* Stem herbaceous, much branched, diffuse, woolly: leaves linear-lanceolate, narrowed at both ends, downy: flowers in terminal clusters.
 Marshes. *Engl. Bot. t.* 1194. *Flor. Dan. t.* 859.
- glomeratum.* Stem herbaceous, diffuse: leaves somewhat clasping: inner calyx-scales subulate, naked.
 The Cape. *Leaves* spatulate, very hairy.

- involutrum*. Herbaceous: stem erect, somewhat branched, woolly: leaves linear, mucronate downy underneath: flowers sessile, in globular heads, terminal, involucred.
New Zealand. *Forst prodr.* 201. Involucre many leaved.
- bracteatum*. Stem herbaceous, simple: leaves spatulate, woolly underneath: flowers in heads, involucred: bractes spatulate, downy.
Mount Video. *Lam. encycl.* 2. p. 752. Calyx glabrous, acute.
- Leontopodium*. Stem herbaceous, quite simple: leaves linear-lanceolate, downy underneath: flowers terminal, sessile, clustered, bractes lanceolate, woolly, radiately spreading: calyx villous.
Alps. *Jacq. Aufst.* 1. 86.
- asterisciflorum*. Stem herbaceous, quite simple: leaves linear-lanceolate, downy: flowers terminal sessile, clustered: bractes linear-lanceolate, downy, radiately spreading: calyx glabrous.
Spain. *Moris. hist.* 3. sect. 7. t. 11. f. 1.
- Leontopodioides*. Stem herbaceous, quite simple: leaves linear-lanceolate, downy: flowers about 3 together, terminal, sessile, surrounded with 3 linear-lanceolate downy spreading bractes.
Siberia. *Willd* 3. p. 1893. Calyx downy.
- arnicoides*. Stem herbaceous, nearly naked, erect: radical-leaves lanceolate, 3-nerved, downy: flowers in a leafy head.
Bourbon. *Lam. encycl.* 2. p. 752. Calyx shining.
- * *germanicum*. Stem herbaceous, erect, forked: leaves linear-lanceolate, acute, downy: flowers in globular heads, lateral and terminal.
Pastures. *Flor. Dan. tab.* 997. *Filago. Sp. pl.*
- * *gallicum*. Stem herbaceous, erect, branched: leaves linear, revolute, acute, a little hoary: flowers clustered, lateral and terminal.
Gravelly fields. *Pluk phyt.* 1. 298. f. 2.
- pyramidalum*. Stem herbaceous, erect, forked: leaves lance-spatulate, pubescent: flowers clustered, lateral and terminal.
South of France, Spain. *Filago. Sp. pl.*
- montanum*. Stem herbaceous, erect, a little forked: leaves linear-lanceolate, appressed, downy: flowers clustered, lateral and terminal.
Germany, Sweden. *Filago. Sp. pl.*

* *minimum*. Stem herbaceous, erect, branched: leaves lanceolate, acute, hoary: flowers clustered and solitary, lateral and terminal.

Gravelly places. *Erg. Bot. t. 1157. Moris. f. 7. t. 11. f. 3.*

arvense. Stem herbaceous, erect, paniced: leaves oblong-lanceolate, woolly: flowers downy, clustered, lateral and terminal.
Europe. *Filago arvensis. Fl. Suec. 2. n. 781.*

Lagopus. Stem herbaceous, erect, branched: leaves lanceolate, hearted at the base, clasping, woolly: flowers clustered, downy, lateral and terminal.
Siberia. *Willd. 3. p. 1897.*

F. *Doubiful.*

capitatum. Leaves ovate-lanceolate mucronate, oblique, downy underneath: flowers sessile.
The Cape. *Thunb. prodr. 148.*

decumbens. Leaves 3-sided, obtuse, glabrous: stem decumbent.
The Cape. *Thunb. prodr. 148.*

conyzoides. Leaves linear-oblong, downy: stem erect, shrubby: flowers sessile.
The Cape. *Thunb. prodr. 148.*

heterophyllum. Leaves linear, obtuse; lower-ones lanceolate: stem erect: flowers paniced.
The Cape. *Thunb. prodr. 149.*

splendiaum. Leaves linear, downy: stem shrubby: flowers paniced.
The Cape. *Thunb. prodr. 149.*

debile. Leaves ovate, obtuse, glabrous: stem herbaceous, paniced.
The Cape. *Thunb. prodr. 149.*

nanum. Leaves elliptic-lanceolate, downy: flowers sessile: stems diffuse.
The Cape. *Thunb. prodr. 149. G. pusillum.*

expansum. Leaves lance-oblong, downy: flowers paniced: branches diffuse.
The Cape. *Thunb. prodr. 149.*

micranthum. Leaves elliptic-lanceolate, woolly: flowers sessile: stem erect, herbaceous.
The Cape. *Thunb. prodr. 149.*

maculatum. Leaves elliptic-lanceolate, obtuse, woolly: flowers sessile: calyx spotted with purple.
The Cape. *Thunb. prodr. 149.*

- achelinoides.* Leaves obovate, obtuse, downy: flowers sessile: stem erect, shrubby.
The Cape. *Thunb. prodr.* 150.
- trifidum.* Leaves lanceolate, downy: flowers sessile: stem erect, herbaceous.
The Cape. *Thunb. prodr.* 150.
- revolutum.* Leaves lanceolate: flowers panicled: stem erect, shrubby.
The Cape. *Thunb. prodr.* 150.
- molle.* Leaves lanceolate, hairy, downy underneath: flowers panicled: stem erect.
The Cape. *Thunb. prodr.* 150.
- frigosum.* Leaves obovate-oblong, acute, rough with hairs above: panicle compact: stem erect.
The Cape. *Thunb. prodr.* 150.
- ascendens.* Leaves elliptic-obovate, downy: flowers panicled: stem herbaceous, ascending.
The Cape. *Thunb. prodr.* 150.
- cernuum.* Leaves obovate-lanceolate, mucronate, downy: flowers in heads: stem erect, shrubby.
The Cape. *Thunb. prodr.* 150.
- niveum.* Leaves linear-lanceolate, downy: flowers panicled: stem erect, shrubby.
The Cape. *Thunb. prodr.* 150.
- scabrum.* Leaves lanceolate, undulate, rough: flowers peduncled: stem erect, shrubby.
The Cape. *Thunb. prodr.* 150.
- humile.* Leaves lanceolate, woolly: flowers sessile: stem erect, shrubby.
The Cape. *Thunb. prodr.* 151.
- polifolium.* Leaves obovate, downy: flowers panicled: stem herbaceous, decumbent.
The Cape. *Thunb. prodr.* 151.
- multiflorum.* Leaves oblong, obtuse, woolly: panicle compound: stem woolly, shrubby.
The Cape. *Thunb. prodr.* 151, G. Polyanthos.
- orbiculare.* Leaves ovate, downy underneath, reflected: stem decumbent.
The Cape. *Thunb. prodr.* 152.

rotundifolium. Leaves roundish-ovate, downy: flowers sessile: stems herbaceous, diffuse.

The Cape, *Thunb. prodr.* 152.

latifolium. Leaves oblong, reticulate, rough above: flowers sessile: stem herbaceous, decumbent.

The Cape. *Thunb. prodr.* 152.

capillaceum. Leaves petioled, ovate, downy underneath: flowers racemed: stem herbaceous, decumbent.

The Cape. *Thunb. prodr.* 152.

1510 XERANTHEMUM. *Receptacle* chaffy: down chaffy and bristly: *calyx* imbricate, radiate, with the ray coloured.

annuum. Calyx scales obtuse, scarious; inner-ones of the ray lanceolate, obtuse, spreading.

France; Austria. *Jacq. Aust. t.* 388. *Moris. f.* 6. *t.* 12. *f.* 2.

inapertum. Calyx scales acute, membranaceous at the edge: inner-ones of the ray lanceolate, acute, connivent.

Italy. Austria. *Hall. Herb. 1. t.* 23. *Moris. f.* 6. *t.* 12. *f.* 1.

orientale. Calyx scales roundish, scarious; inner ones of the ray ovate, pointed, erect: chaff of the seeds ovate, awned, longer than the seeds.

Armenia. *Chaff* scarious, shining, white.

1511. ELICHRYSUM. *Receptacle* naked: down simple or feathery: *calyx* imbricate, radicate, with the ray coloured *Xeranthemum.* Linn.

bracteatum. Leaves lanceolate, repand, roughish: flowers solitary, terminal, furnished with bractes.

New Holland *Ventenat. Jard. fasc.* 1. *tab.* 2.

vestitum. Shrubby, erect: leaves sessile, lance-linear, woolly, rather acute; floral-ones with a membranaceous appendage at top: branches 1-flowered.

The Cape, *Burm. Afr. t.* 66. *f.* 1. *Pet. gaz. 1. t.* 1. *f.* 9.

spirale. Shrubby, erect: leaves sessile, lanceolate, downy, carinate underneath, spirally imbricate: branches 1-flowered,

The Cape. *Anarews Bot. repos. tab.* 262.

spicifissimum. Shrubby, erect: leaves sessile, lance-obovate, acute, 3-nerved, woolly: branches 1-flowered.

The Cape. *Andr. repos. t.* 51. *Burm. Afr. t.* 66. *f.* 2.

- fulgidum*. Somewhat shrubby, erect: leaves clasping, ovate lanceolate, pubescent underneath, woolly on the margin: branches about 3-flowered.
The Cape. *Curt. Magaz. t. 414. Jacq. ic. rar. t. 173.*
- proliferum*. Shrubby, branched, diffuse, proliferous: leaves roundish-ovate, glabrous, convex, closely imbricate: flowers sessile.
The Cape. *Seba Mus. 2. t. 89. f. 8. Breyn. ic. t. 17. f. 1.*
- imbricatum*. Shrubby, branched: leaves oblong-lanceolate, filky, imbricate: branches 1-flowered: peduncles scaly.
The Cape. *Pet. gaz. t. 5. f. 10. Breyn. prodr. t. 18. f. 1.*
- canescens*. Shrubby, erect: leaves oblong, obtuse, imbricate: branches 1-flowered: calyx-scales ovate.
The Cape. *Curt. Magaz. t. 420. Burm. Afr. t. 68. f. 1.*
- argenteum*. Shrubby, erect: leaves oblong, filky, recurved.
The Cape. *Thunb. prodr. 152. Xeranthemum.*
- recurvatum*. Shrubby, erect: leaves lanceolate, downy, ciliate, recurved: branches 1-flowered.
The Cape. *Calyx red, glabrous, pointed.*
- retortum*. Shrubby, branched, decumbent: leaves lanceolate, filky, slightly recurved: branchlets 1-flowered: peduncles scaly.
The Cape. *Dill. Elib. t. 322. f. 415.*
- Stoloniferum*. Herbaceous, creeping: leaves lanceolate, filky, recurved and spreading: branchlets 1-flowered.
The Cape. *Flowers small, reddish.*
- radicans*. Herbaceous, creeping: leaves ovate, obtuse, filky, reflected.
The Cape. *Willd. 3. p. 1907. Leaves silvery.*
- frigidum*. Herbaceous, branched, decumbent: leaves imbricate 4-ways, oblong, obtuse, hoary: branches 1-flowered: flowers sessile.
Syria. *Billard. ic. Syr. p. 9. tab. 4. Calyx snowy.*
- spinosum*. Shrubby, erect: leaves lanceolate, obtuse, downy: branchlets 1-flowered: calyx-scales spinous-mucronate.
The Cape. *Burm. Afr. t. 67. f. 3.*
- sesamoides*. Shrubby, erect: leaves acerose, linear, carinate, glabrous, appressed: branches 1-flowered: flowers sessile.
The Cape. *Curt. Mag. t. 425. Burm. Afr. t. 67. f. 2.*

fasciculatum Shrubby, erect: leaves acrosc, linear, somewhat cylindrical, downy above; lower ones spreading; upper ones appressed: branches 1-flowered: peduncles scaly.

The Cape. *Andr. repos. t. 242 tab 279.*

virgatum. Shrubby, erect: leaves lanceolate, downy, remote, spreading: branches 1-flowered: flowers peduncled.

The Cape. *Burm. prodr. 3. t. 16. f. 3. Calyx yellow.*

striatum. Leaves linear, nerved, villous: stem erect.

The Cape. *Thunb. prodr. 152.*

lanceifolium Leaves lanceolate, acute, silvery: peduncles scaly.

The Cape. *Thunb. prodr. 152.*

Stæbelina. Shrubby, erect: leaves oblong-lanceolate, tapering to the base, silky: peduncles naked, 1-flowered, terminal.

The Cape. *Herb. clothed with white down.*

variegatum Shrubby, erect, branched: leaves oblong, downy, imbricate: branches 1-flowered: flowers nodding.

The Cape, *Calyx scales obtuse, spotted.*

paniculatum Shrubby, erect: leaves linear-lanceolate, silky: corymb simple, terminal.

The Cape. *Burm. Afr. t. 67. f. 1. Leaves silvery.*

bellidioides. Herbaceous: leaves ovate, clasping, snowy-downy-underneath: branches 1-flowered: peduncles naked.

New Zealand. *Forst. prodr. 293.*

1512. DENEKIA. *Receptacle naked: down 0: calyx imbricate: florets of the ray 2-lipped.*

capensis. Denekia.

The Cape. *Thunb. prodr. 153. Nov. Gen. 14. p. 177.*

Stem striate, downy, branched: leaves half-clasping, oblong-lanceolate, obtuse with a point, undulate, downy underneath, entire: flowers terminal, in a close panicle.

1513. CARPESIMUM. *Receptacle naked: down 0: calyx imbricate, with the outer-scales reflected: florets of the margin 5-cleft.*

cernuum. Flowers axillary, mostly solitary.

South of Europe. *Jacq. Ausr. t. 204.*

abrotanoides Flowers axillary, mostly solitary.

China. *Calyx imbricate, with spreading leaflets.*

1514. BACCARIS. *Receptacle* naked: *down* simple: *calyx* imbricate cylindrical: *female florets* intermixed with the hermaphrodite-ones.

Ploughman's spikenard.

- trifolia.* Leaves lanceolate, longitudinally tooth-ferrate.
Virginia, Peru. *Pluk. amal. t. 454 f. 10.* Eupatorium.
- nerisifolia.* Leaves lanceolate, ferrate with a tooth or two towards the top.
The Cape. *Flowers* terminal, in a close spike.
- arborea.* Leaves elliptic-lanceolate, very entire, naked, petioled.
East Indies. *Calyx* with subulate scales.
- viscosa.* Leaves elliptic, rather acute, 3-nerved, very entire, petioled; the younger-ones viscid.
Mauritius. *Lam. encyclop. 1. p. 341.*
- balimifolia.* Leaves obovate, emarginate-crenate on the upper part.
Virginia. *Pluk. alm. t. 27. f. 2. Moris. 3 f. 8 t. 10. f. 4.*
- arbutifolia.* Leaves oblong, sessile, rigid, closely ferrate, reticulate with veins: corymb terminal: flowers clustered.
Peru. *Vabl. symb. 3. p. 97.* Shrub quite glabrous.
- sessiflora.* Leaves oblong, sessile, toothed and entire: flowers terminal, sessile.
Brasil. *Vabl. symb. 3. p. 97.* Shrub glabrous.
- Dioscorides.* Leaves oblong, sessile, toothed; the teeth at the base deeper and stipule-like.
Syria, Egypt. *Rauw. it. tab. 54.*
- villosa.* Leaves lanceolate, petioled, ferrate upwards, villous-downy underneath: branches downy.
Arabia. *Vabl. Symb. 3. p. 98.* Calyx setaceous.
- indica.* Leaves obovate, denticulate, petioled.
East Indies. *Breyn. cent. tab. 70.*
- brasiliانا.* Leaves obovate, entire, rough, sessile, veined underneath.
Brasil. *Flowers* remote, alternate.
- tridentata.* Leaves sessile, wedge-form, smooth, 3-toothed at top.
Brasil. *Vabl. symb. 3. p. 98.* Calyx-leaves ovate.
- dioica.* Leaves wedge-form, somewhat retuse, very entire, smooth, 3-nerved: flowers diœcious.
St. Domingo. *Vabl. symb. 3. p. 98. tab. 74.*
- fœtida.* Leaves lanceolate, ferrate-toothed: corymbs leafy.
Virginia. *Dill, Elth. 1. 89. f. 105?* Conyza.

1515. *CONYZA*. *Receptacle* naked: *down* simple, rough: *calyx* imbricate, roundish: *florets* of the ray 3-cleft. *Flea bane*.

A. Herbaceous; the leaves not decurrent.

* *squarrosa*. Leaves ovate-lanceolate, rough, pubescent, serrate: flowers corymbed: calyx-scales spreading every way and recurved.

Pastures. *Engl. Bot.* t. 1195. *Blackw.* t. 102.

scabra. Leaves oblong, rough, slightly toothed, sessile: peduncles 1-flowered, elongated.

East Indies. *Leaves* 4 or 5 toothed each side.

foliolosa. Leaves oblong, nearly entire, somewhat clasping, pubescent: peduncles 1-flowered, lateral, becoming elongated.

East Indies. *Willd.* 3. p. 1919. Branchlets very leafy.

patula. Leaves elliptic, serrate, villous underneath: calyx nearly globular, with lance subulate leaflets: branches spreading.

China. *Mill. fig. tab.* 247. *Serratula*.

paniculata. Leaves oblong, pubescent both sides, sessile; the lower-ones petioled, with inflected teeth: stem panicled: corymbs peduncled, axillary.

East Indies. *Willd.* 3. p. 1920. Calyx retroflected.

bifrons. Leaves spatulate-oblong, clasping, serrate, wrinkled.

Canada. *Pluk. alm.* t. 87. f. 4.

bifoliata. Leaves cuspidate toothed; lower-ones petioled, roundish-ovate; upper-ones sessile, oblong, wedge-shaped at the base: racemes axillary, leafy at the base, peduncled.

East Indies. *Pluk. alm.* t. 177. f. 1. Bractes oblong.

pubigera. Leaves oblong, slightly toothed and petioled: peduncles woolly, about 2-flowered.

East Indies. *Rumph. Amb.* 5. t. 103. f. 2. *Sonchus*,

purpurascens. Leaves ovate-lanceolate, serrate, somewhat downy: stem simple below, corymbed at top: flowers ovate.

Jamaica. *Sloan. Jam.* 1. t. 158. f. 1.

trinervis. Leaves ovate-lanceolate, very entire, glabrous, 3-nerved: those of the stem alternate; of the branches nearly opposite.

Brazil. *Lamarck. encycl.* 2. p. 86. Glabrous.

- ferrulata.* Leaves ovate-lanceolate, broader at the base, acutely ferrate, petioled, nearly glabrous: corymbs branched, terminal. Brazil. *Lam. encycl.* 2. p. 86. Stem nearly glabrous.
- madagascariensis.* Leaves lance-linear, with few teeth, glabrous: panicle cymbed, lax, terminal. Madagascar. *Lam. encycl.* 2. p. 86. Leaves erect.
- striata.* Leaves linear-lanceolate, tapering to the base, very entire, hairy: flowers corymbd: stem panicled, stiff. East Indies. *Willd.* 3. p. 1922. Leaves obtuse with a point.
- canejoints.* Leaves linear: panicle flat-topped. The Cape. *Plant* hoary: leaves a little downy.
- oleosolia.* Leaves lanceolate, tapering to the base, obtuse, very entire, downy: corymb terminal: stem simple. Armenia. *Lam. encycl.* 2. p. 87. Calyx-scales obtuse.
- candida.* Leaves ovate, petioled, very entire, obtuse, downy: peduncles 1-flowered, solitary, axillary and terminal, thickened. Crete. *Barr. rar. t.* 217 *Buxb. cent.* 2. t. 17.
- verbascifolia.* Leaves ovate, petioled, crenate, obtuse, downy, wrinkled and veined: peduncles 1-flowered, solitary, axillary and terminal, thickened. Sicily, Greece. *Bocc. Sic. t.* 31. f. 2. Aster.
- balsamifera.* Leaves oblong-lanceolate, doubly toothed, acute, downy underneath, wrinkled and veined: petioles toothed: corymb terminal, divaricate. East Indies. *Rumph. Amb.* 6. t. 24. f. 1.
- mollis.* Leaves rhombic-ovate, nearly sessile, toothed, pubescent, downy underneath: stem naked upwards: flowers corymbd. East Indies. *Willd.* 3. p. 1924. Down long, snowy.
- chenopodiifolia.* Leaves ovate-deltoid, unequally ferrate, soft: racemelets terminating the stem and branches. Bourbon. *Lam. encycl.* 2, p. 85. Bractes silky.
- cinerea.* Leaves pubescent underneath; lower-ones ovate repand, tapering to the petiole; upper-ones oblong-lanceolate, nearly very entire: stem panicled: flowers corymbd. East Indies. *Burm. Zeyl.* t. 96. f. 1 *Rumph. Amb.* 6 t. 14. f. 1.
- prolifera.* Branches proliferous at top. leaves ovate, tooth-angular, narrowed into the petiole: corymbs crowded, terminal. Java. *Rumph. Amb.* 5. t. 104. f. 1. Sonchus.

- chinensis.* Leaves lance-ovate, reflected-ferrate, downy underneath : flowers terminal, crowded.
China. *Rumph. Amb.* 6. t. 14. f. 2. Senecio.
- hirsuta.* Leaves oval, very entire, hairy underneath.
China. Flowers in crowded racemes.
- pauciflora.* Leaves lance-obovate, tapering to both ends, glabrous, rough underneath, ferrate : branches 1-flowered.
Senegal. *Willd.* 3. p. 1927. Calyx-scales subulate.
- egyptiaca.* Leaves oblong-spatulate, toothed, hairy : flowers somewhat paniced, globular : calyx-leaves subulate, very soft.
Egypt, Sicily. *Moris. hist.* 3. sect. 7. t. 20. f. 14.
- Gouani.* Leaves lanceolate, ferrate at top, rough on the margin ; lower-ones obovate : flowers crowded : calyx-leaves lanceolate, membranaceous on the margin.
Canaries. *Jacq. hort.* 3. t. 79. Erigeron.
- senegalenfis.* Leaves oblong-obovate, toothed ; the teeth deeper at the base : flowers somewhat corymbed, crowded.
Senegal. *Willd.* 3. p. 1928. Calyx-scales rough.
- dentata.* Leaves lanceolate, clasping, dilated at the base, pubescent, toothed : branchlets 1-flowered : peduncles elongated : stem hairy.
Senegal. *Willd.* 3. p. 1929. Calyx-scales rough.
- villosa.* Leaves lanceolate, clasping, dilated at the base, villous, ferrate : branchlets 1-flowered : stem villous.
Egypt. *Willd.* 3. p. 1929. Stem with white hairs.
- aurita.* Leaves toothed ; radical-ones nearly glabrous, obovate ; those of the stem oblong, pubescent, somewhat pinnatifid at the base : stem paniced : calyx-scales subulate ; outer-ones hairy
East Indies. Calyx ovate, with linear scales.
- guineensis.* Leaves toothed : radical-ones obovate, rough ; those of the stem lanceolate, villous, somewhat pinnatifid at the base : stem paniced : flowers corymbed : calyx-scales lanceolate ; outer-ones villous.
Guinea. *Willd.* 3. p. 1930. Calyx-scales acute.
- amplexicaulis.* Leaves lanceolate, somewhat clasping, slightly toothed, hairy : stem branched, divaricate : peduncles 1-flowered.
East Indies. *Willd.* 3. p. 1930. Flowers axillary.

- obliqua*. Leaves ovate, somewhat clasping, denticulate, oblique: stem much branched: peduncles 1-flowered.
East Indies. *Calyx* scales subulate, pubescent.
- orientalis*. Leaves rough, ferrate; lower-ones obovate, petioled; upper-ones lanceolate, sessile: flowers terminal, crowded.
Armenia. *Willd.* 3. p. 1931. *Calyx*-scales subulate.
- fulva*. Leaves linear lanceolate, rough, nearly very entire, revolute at the edge: stem panicled: peduncles 1-flowered, leafy: lower calyx-scales lax.
Sicily. *Bocc. Sic. t.* 31. f. 4. *Pluk. phyt. t.* 168. f. 2.
- fetida*. Leaves linear, tapering to the base, mucronate, corymbs peduncled, close, terminal.
Africa. *Mill. fig. t.* 232. *Herm. Lugdb. t.* 662.
- pungens*. Leaves tricuspidate, subulate, pungent: stem panicled, angular, glabrous.
Egypt. *Calyx* scales ovate, glabrous.
- sordida*. B. Shrubby: leaves not decurrent.
Leaves linear, very entire: peduncles long, 3-flowered: stem somewhat shrubby.
South of Europe. *Barr. ic.* 368. 277.
- saxatilis*. Leaves linear, slightly toothed: peduncles very long, 1-flowered: stem somewhat shrubby.
South of Europe. *Bocc. Mus. t.* 104. *Moris. f.* 7. t. 10. f. 16.
- rupestris*. Leaves spatulate, slightly toothed, downy: stem somewhat shrubby, downy: peduncles elongated, 1-flowered.
Arabia. *Shaw. Afr. t.* 176. *Calyx*-scales obtuse.
- sericea*. Leaves linear-filiform, silky-downy: stem silky downy: flowers panicled.
Canaries. *Calyx* glabrous, with subulate yellow scales.
- ericoides*. Shrubby: leaves linear, revolute, downy underneath: flowers globular, solitary, sessile on the tips of the branchlets.
Peru. *Lam. encycl.* 2. p. 93. *Calyx*-scales linear.
- thyoides*. Shrubby: leaves clasping, ovate, acute, carinate, compressed, imbricate in 2 rows: flowers solitary, sessile and lateral.
Peru. *Lamarck. illust. gen. tab.* 697. f. 5.
- compressiformis*. Shrubby, glabrous: leaves minute, obovate, carinate, imbricate in 4 rows: flowers solitary, terminal.
Magellan's straits. *Lam. illust. gen. tab.* 697. f. 3.

- lycopodioides* Shrubby: leaves subulate, imbricate, appressed: flowers solitary, terminal.
Bourbon. *Lamaek. illust. gen. tab. 697. f. 2.*
Down white, simple, sessile, with twisted hairs.
- bryoides*. Shrubby, prostrate: leaves linear, crowded, hoary underneath: flowers solitary, sessile, at the ends of the branchlets.
Magellan's straits. *Lam. encycl. 2. p. 92.*
- linearifolia*. Shrubby, glabrous: leaves linear, mostly very entire, narrowed towards the base: racemelets short, leafy, terminal.
Bourbon. *Lam. encycl. 2. p. 92.*
- punctata*. Shrubby: leaves linear, pointed, tapering to the base, with impressed dots: peduncles very long, terminal, 1-flowered.
Chili. *Willd. 3 p. 1937.* Calyx scales acute.
- canariensis*. Shrubby: leaves linear, tapering to the base, rather obtuse, serrate: corymb terminal.
Canaries. *Willd. 3. p. 1937.* Calyx-scales oblong.
- incana*. Shrubby: leaves linear, tapering to the base, slightly toothed, downy: corymb terminal.
Arabia felix. *V. bl. symb. 1. p. 72.* Erigeron.
- inuloides*. Leaves wedge-linear, obtuse, crenate-toothed, glabrous; stem shrubby: antheræ with 2 bristles.
Teneriffe. *Jacq. ic. rar. 1. tab. 171.* Chrysocoma.
- chrysocoma*. Stem shrubby: leaves linear, very entire, villous; with the down appressed: peduncles leafy, 1-flowered.
Barbary. *Desfont. Atl. 2 p. 269, tab. 232.*
- Coronopus*. Shrubby, viscid: leaves linear lanceolate, serrate; the serratures oblong and pointing upwards: flowers globular, corymbed, terminal.
Rodrigo. *Lam. encycl. 2 p. 90.* Calyx glabrous.
- salicifolia*. Shrubby: leaves linear lanceolate, very entire, revolute at the margin, tapering to both ends, downy underneath: corymb terminal, compound.
Mauritius. *Lamarck. encycl. 2. p. 89.* Outer-calyx downy.
- laurifolia*. Shrubby: leaves oblong lanceolate, narrowed at the base into a petiole, nearly entire: corymb terminal, compound, spreading.
Bourbon. *Lamarck. encycl. 2. p. 90.*

- tortuosa*. Stem twisted, shrubby: leaves ovate-oblong, very entire: racemes reflected.
Vera Cruz. *Calyx*-scales ovate, inner-ones lanceolate.
- rigida*. Leaves petioled, ovate, entire, rough, veined underneath: spikes flexuous: flowers in pairs, leaning one way.
Jamaica. *Savartg. prodr.* 113.
- glabra*. Leaves petioled, ovate, very entire, nearly glabrous, veined: spikes straight: flowers leaning one way.
America. *Willd.* 3. p. 1940.
- amygdalina*. Shrubby: leaves petioled, ovate-lanceolate, serrate, more or less downy: flowers corymbd.
Bourbon. *Lam. encycl.* 2. p. 90. *Calyx* lanceolate.
- melaestomoides*. Shrubby: leaves sessile, ovate, toothed, 3-nerved, naked and wrinkled above, 3-nerved underneath.
Bourbon. *Lam. encycl.* 2. p. 91. *Calyx*-scales linear.
- lithospermifolia*. Shrubby: leaves lanceolate, toothed at top, hairy both sides, crowded: inner calyx-scales dry.
Mauritius. *Lam. encycl.* 2. p. 91. *Calyx*-scales linear.
- heliotropifolia*. Leaves sessile, oblong, very entire, somewhat downy: corymb villous, terminal: flowers crowded.
Bourbon. *Lam. encycl.* 2. p. 90. *Calyx*-scales downy.
- panamensis*. Shrubby: leaves sessile, ovate-lanceolate, rough, very entire, triply nerved: panicle terminal.
Panama. *Willd.* 3. p. 1942. *Calyx*-scales oblong.
- pyrifolia*. Shrubby: leaves ovate, pointed, slightly toothed, glabrous: corymb panicled, lax.
Java. *Lam. encycl.* 2. p. 90. *Calyx* glabrous.
- appendiculata*. Shrubby: leaves lanceolate, serrate, downy underneath, appendaged at the base.
Bourbon. *Lam. encycl.* 2. p. 89. *Calyx* downy.
- argentea*. Shrubby: leaves ovate, silky downy, half-clasping: flowers sessile, terminal, crowded.
Bourbon. *Lam. encycl.* 2. p. 88. *Calyx* bearded.
- populifolia*. Shrubby: leaves ovate, somewhat hearted, very entire, petioled, downy both sides: flowers umbelled.
Mauritius. *Lam. encycl.* 2. p. 88. *Calyx* downy.
- carolinensis*. Shrubby: leaves ovate-lanceolate, very entire, hoary, downy underneath: corymb terminal, compound.
Carolina, Bahamas. *Jacq. ic. rar.* 3. t. 585.

- odorata*. Shrubby: leaves ovate, petioled, hoary underneath, ferrate: corymb terminal, compound.
South America. *Plum. spec.* 9. *ie.* 97.
- arborescens*. Leaves ovate, very entire, downy underneath: spikes recurved, leaning one way: bractes reflected.
South America. *Plum spec.* 10. *tab.* 130. *f.* 2.
- fruticosa*. Leaves ovate, very entire, obtuse: flowers sessile, alternate: branchlets flexuous.
South America. *Flowers* purplish.
- incisa*. Leaves ovate, somewhat hearted, viscid-hairy, toothed, appendaged at the base: receptacle of the disk cellular.
The Cape. *Ait. kew.* 3. *p.* 184. Corymbs terminal.
- arbutifolia*. Shrubby: leaves ovate, veined, sharply toothed, crowded: flowers sessile, terminal, globular.
Peru. *Lam. encycl.* 2. *p.* 93. Calyx scales ovate-lanceolate.
- myrsinites*. Shrubby: leaves lanceolate, 2-toothed: flowers globular, somewhat crowded, terminal.
St. Domingo. *Lam. encycl.* 2. *p.* 91. Calyx-scales ovate.
- magallenica*. Shrubby, glabrous: leaves ovate-wedge-form, obsoletely 3-toothed: flowers solitary, nearly terminal.
Magellan's straits. *Lamarck. encycl.* 2. *p.* 92.
- tricuneata*. Shrubby, glabrous: leaves wedge-form, 3-lobed: flowers terminal, crowded.
Mexico. *Erigeron tricuneatum*. *Linn. suppl.* 368.
- retusa*. Shrubby: leaves obovate, retuse, crenate at top, nerved, pubescent: flowers corymbed.
Bourbon. *Lamarck. encycl.* 2. *p.* 90. Calyx-scales ovate.
- buxifolia*. Shrubby, glabrous: branches stiff: leaves oblong-ovate, very entire: flowers lateral, sessile.
Peru. *Lam. encycl.* 2. *p.* 92. Calyx-scales ciliate.
- C: Shrubby and herbaceous: stem winged.
- genistefoloides*. Shrubby: stem winged, jointed, nearly leafless: flowers racemed.
Peru. *Lam. encycl.* 2. *p.* 94. Calyx ovate, glabrous.
- articulata*. Shrubby, much branched, interruptedly winged: leaves oblong-elliptic, shorter than the joints: flowers panicled.
Monte Video. *Lam. encycl.* 2. *p.* 94.

- sagittalis.* Leaves decurrent, lanceolate, denticulate, roughish, green both sides: flowers clustered at the tops of the branchlets.
Monte Video. *Lam. encycl.* 2. p. 94. Calyx-scales ovate.
- crispata.* Leaves decurrent, lanceolate, ferrate-toothed, naked: peduncles 1-flowered, stem shrubby.
Arabia. *Vabl. symb.* 1. p. 71.
- arabica.* Leaves decurrent, linear, very entire, downy: flowers panicked.
Arabia. *Vabl. symb.* 1. p. 72. Calyx-scales fetaceous.
- obapsoides.* Leaves decurrent, ovate, mucronate, downy; the lower ones ferrate: flowers corymbed.
Near the Caspian sea. *Willd.* 3. p. 1949.
- virgata.* Leaves decurrent, linear-lanceolate, ferrulate, downy underneath: spike terminal, long, interrupted.
Jamaica, Carolina. *Sloan. Jam.* 1. tab. 152. f. 5.
- rugosa.* Leaves decurrent, elliptic, crenate, downy underneath: flowers in heads.
Brasil. *Vabl. symb.* 1. p. 71.
- alopecuroides.* Leaves decurrent, ovate, ferrate, downy underneath: spike terminal, close, interrupted at the base.
Martinico. *Plum. Amer. tab.* 98 f. 1.
- spicata.* Leaves decurrent, lanceolate, toothed, downy underneath: spike terminal, cylindrical, peduncled.
South America. *Cavan. ic.* 1. p. 8. tab. 12.
- redolens.* Leaves decurrent, lanceolate, very entire, downy underneath: spike terminal, clustered.
New South Wales. *Forst. prodr.* n. 535.
- decurrens.* Leaves decurrent, lanceolate, ferrulate: stem mostly forked: flowers axillary, sessile, clustered.
India. *Plant* downy: *heads* of flowers grey.
1516. MADIA. *Receptacle* naked: *down* 0: *calyx* double; the outer of 8 or 10 equal leaves; inner many leaved and shorter than the outer.
- fativa.* Leaves linear-lanceolate, petioled.
Chili. *Molin. chil.* 114. Stem hollow: flowers terminal.
- mellosa.* Leaves clasping, lanceolate, viscid.
Chili. *Molin. chil. ed. Germ.* p. 115.

- viscosus*. Leaves lanceolate, sessile, viscid: outer-calyx 10-leaved.
Chili. *Carv. ic. 3. t. 298. Jacq hort. 3. tab. 302.*

1517. *ERIGERON*. *Receptacle* naked: *down* simple: *florets* of the margin very numerous and narrow, linear: *calyx* imbricate.

- graveolens*. Leaves nearly linear, very entire: branches lateral, many-flowered.
Levani. *Calyx-leaves* spreading, erect.
- glutinosum*. Leaves lance-linear, viscid-hairy: peduncles 1-flowered.
France, Spain. *Peduncles* alternate: *flowers* purple.
- canescens*. Leaves lanceolate, very entire, pubescent: peduncles 1-flowered, axillary.
— *Willd. 3. p. 1953. Corol* radiate, yellow.
- carolinianum*. Stem paniced: flowers mostly solitary, terminal: leaves linear, very entire.
Carolina. *Dill. Elth. tab. 306. f. 394.*
- nervosum*. Leaves linear-lanceolate, very entire, filky, nerved: flowers paniced.
North America. *Willd. 3. p. 1953.*
- * *canadense*. Stem and flowers paniced, hairy: leaves lanceolate, ciliate; lower-ones toothed.
Walter. *Moris. sect. 7. tab. 20. f. 29.*
- bonariense*. Lower-leaves lanceolate, jagged; stem-leaves linear: flowers racemed.
South America. *Dill. Elth. 1. 257. f. 334. Senecio.*
- linifolium*. Leaves rough; lower-ones lanceolate, toothed in the middle; upper-ones linear: flowers corymbed.
— *Willd. 3. p. 1955. Lower leaves* not jagged.
- sumatrense*. Downy: flowers in racemed panicles: leaves lanceolate, slightly ferrate.
Sumatra. *Retz. obs. 5. p. 28. Lower-leaves* toothed.
- sericeum*. Flowers paniced: leaves ovate-lanceolate, filky-downy, entire and ferrate, appendaged at the base,
Java. *Retz. obs. 5. p. 28. Panicle* diffuse.
- strigosum*. Leaves lanceolate, tapering to both ends, slightly toothed, with bristly hairs: flowers in corymbed panicles.
Pennsylvania. *Willd. 3. p. 1956.*

- heterophyllum*. Root-leaves roundish-ovate, deeply toothed, petioled : stem leaves lanceolate, acute, slightly serrate in the middle: corymb terminal.
 Pennsylvania. Willd. 3. p. 1956. Leaves glabrous.
- chinense*. Stem-leaves obovate, tapering to a petiole; serrate; slightly cut at the base; branch-leaves lanceolate, nearly entire: flowers in corymbéd panicles.
 China. Jacq. hort. Schanb. 3. tab. 303.
- japonicum*. Leaves sessile, obovate, serrate, villous: flowers panicled.
 Japan. Thunb. Jap. 312.
- jamaicense*. Stem few-flowered, somewhat villous. leaves wedge-lanceolate, with 2 serratures each side.
 Jamaica. Swartz. obs. 1. 8. f. 2. Sloan. Jam. 1. t. 152. f. 3.
- ovulare*. Leaves wedge-shaped, acute, hairy, toothed each side at the top, ciliate on the margin; stem-leaves sessile: stem nearly simple, erect; few-flowered.
 Hispaniola. Swartz. prodr. 113.
- scabrum*. Leaves lanceolate, denticulate; undulate; rough: flowers terminal, solitary.
 The Cape. Thunb. prodr. 133.
- philadelphicum*. Stem many-flowered: leaves lanceolate, slightly serrate; those of the stem half-clasping: florets of the ray capillary, as long as the disk.
 Canada. Leaves finely ciliate on the margin.
- purpureum*. Stem many-flowered, hairy: leaves oblong, slightly toothed, clasping: florets of the ray capillary, longer than the disk.
 Hudson's Bay. Ait. kew. 3. p. 186. Leaves often entire.
- bellidifolium*. Root-leaves obovate, serrate; those of the stem lanceolate, very entire: stem about 3-flowered: ray longer than the disk.
 Pennsylvania. Willd. 3. p. 1958.
- Villarsii*. Leaves lanceolate, 3-nerved, rough, slightly toothed, sessile: stem panicled: ray shorter than the disk.
 South of France. Bellard. app. pl. Ped. p. 38. t. 7.
- acris*. Stem racemed: peduncles mostly 1-flowered, alternate: leaves lanceolate, sessile.
 Barren pastures. Engl. Bot. t. 1158. Curt. Lond. 1. t. 66.

- * *alpinum*. Stem mostly 1-flowered : calyx a little hairy : leaves rather obtuse, villous underneath.
Mountains. *Eng. Bot. t. 464. Flor. Dan. t. 292.*
- uniflorum*. Stem 1-flowered, nearly naked : calyx hairy : root-leaves spatulate, obtuse, hairy both sides.
Lapland. *Flor. Lapp. tab. 9. f. 3. Alter.*
- gramineum*. Stem 1-flowered : leaves linear, ciliate, rough.
Siberia. *Gmel. Sib. 2. p. 174. t. 76. f. 2. Alter.*
- camphoratum*. Leaves oblong-lanceolate, slightly pubescent, with mucronate serratures : flowers in close corymbs.
Virginia, Pennsylvania. *Hort. Ups. 259.*
- tuberosum*. Leaves linear-lanceolate : branches 1-flowered : stem somewhat shrubby.
France, Syria. *Moris. sect. 7. t. 19. f. 20. t. 20. f. 15.*
- hirtum*. Leaves petioled, ovate, toothed, villous : flowers panicked.
The Cape. *Thunb. prodr. 153.*
- scandens*. Leaves ovate, serrate, villous : flowers axillary : stem climbing.
Japan. *Thunb. Jap. 313. Leaves fascicled.*
- incisum*. Leaves petioled, ovate, cut-toothed : flowers panicked.
The Cape. *Thunb. prodr. 153.*
- pinnatifidum*. Leaves oblong, pinnatifid, hairy.
The Cape. *Thunb. prodr. 153.*
- pinnatum*. Leaves pinnatifid, denticulate, rough.
The Cape. *Flowers terminal, somewhat clustered.*

1518. TUSSILAGO. Receptacle naked: down simple : calyx simple, many-leaved, equal, somewhat membranaceous, swelling at the base : florets of the ray very entire. *Colt's-foot.*

Anandria. Scape 1-flowered, bracted : flower radiate, nearly open : leaves ovate, toothed, downy underneath : petiole sometimes winged.

Hermaphrodite. Flowers radiate : scape shorter than the leaves.

Gmel. Sib. 2. t. 67. f. 1.

Female. Flowers somewhat radiate : scape longer than the leaves. *Gmel. Sib. 2. t. 68. f. 1.*

Siberia. *Amén. Acad. 1. p. 120. t. 11. Anandria.*

lyrata.

Scape 1-flowered, nearly naked : flowers radiate, spreading : leaves oblong, somewhat sinuate and woolly at the base, downy underneath, petioled.

Siberia. *Gmel. Sib. 2. t. 67. f. 2. Hort. Ups. t. 3. f. 2.*

- dentata*. Scape 1-flowered, naked: flower radiate, erect: leaves sessile, oblong, repand-toothed, villous.
North America. *Plum. ic. tab. 40. f. 2.* After.
- integrifolia*. Scape 1-flowered, naked: flower radiate, nodding: leaves sessile, oblong-lanceolate, denticulate, obtuse, downy underneath.
Carolina. *Willd. 3. p. 1964.*
- albicans*. Scape 1-flowered, naked: flower radiate, drooping: leaves petioled, oblong-lanceolate, tapering to both ends, obscurely denticulate, downy underneath.
Jamaica. *Leontodon tomentosum* Linn. suppl.
- pumila*. Scape 1-flowered, naked: flower radiate, erect: leaves sessile, obovate, denticulate, sinuate at the base, downy underneath.
Jamaica. *Savart. prodr. 113.*
- mutans*. Scape 1-flowered, naked: flower radiate, nodding: leaves petioled, obovate, toothed, sinuate at the base, downy underneath.
Jamaica. *Sloan Jam. 1. tab. 150. f. 2.*
- trifurcata*. Scape 1-flowered, bracted: flower radiate, erect: leaves spatulate in 3-5 divisions, glabrous.
Magellan. *Forst. Comm. Gart. 9 p. 38.*
- alpina*. Scape 1-flowered, nearly naked: ray none: leaves glabrous, kidney-form, toothed, glabrous.
Alps. *Curt. Magaz. 1. 84. Jacq. Austr. 1. 246.*
- discolor*. Scape 1-flowered, nearly naked: ray none: leaves kidney-form, toothed, downy underneath.
Alps. *Jacq. Austr. 1. 247.*
- glauca*. Scape about 1-flowered, nearly naked: ray none: leaves glabrous, kidney-form, slightly 7-lobed; the middle-lobes 3-toothed.
Alps. *Jacq. Austr. app. 1. 12.*
- Farfara*. Scape 1-flowered, scaly: flower radiate: leaves heart-shaped, angular, toothed, downy underneath.
Moist lands. *Eng. Bot. 1. 429. Curt. Lond. fluc. 2. t. 60.*
- japonica*. Scape many-flowered, bracted: flowers radiate, peduncled, alternate: leaves roundish-hearted, toothed, pubescent underneath.
Japan. *Banks. ic. Kämpf. tab. 27, 28.*

- frigida.* Thyrses flat-topped: flowers radiate: leaves roundish-heart-ed, unequally toothed, downy underneath.
Lapland. *Gmel. Sib. 2. t. 70. Flor. Dan. t. 61.*
- fragrans.* Thyrses flat-topped: flowers radiate: leaves roundish-heart-ed, equally denticulate, pubescent underneath.
Italy. *Villars. ac. Par. 1. p. 72. tab. 12.*
- laevigata.* Thyrses flat-topped: flowers radiate: leaves roundish-heart-ed, toothed, glabrous.
Bohemia, Siberia. *Gmel. Sib. 2. tab. 69. Flowers yellow.*
- alba.* Thyrses flat-topped: ray none: leaves orbicular-heart-ed, doubly and closely toothed, pubescent underneath.
Hermaph. Lower-peduncles about 2-flowered: female florets very few. *Flor. Dan. tab. 524.*
Fem. Peduncles long many flowered: female florets numerous.
Gmel. Sib. 2. tab. 69. f. D. E.
Mountainous parts of Europe.
- nivea.* Thyrses oblong: ray none: leaves oblong-heart-ed, unequal-ly toothed, thickly clothed with white down under-neath, with the lobes divaricate.
Mountainous parts of Europe.
Hermaph. All the florets hermaphrodite. *Moris. f. 7. t. 10. f. 4.*
Fem. Female-florets numerous: hermaphrodite-florets in threes.
Retz obs. 2. t. 3. T. paradoxa.
Mountainous parts of Europe.
- Petasites.* Thyrses ovate-oblong: ray none: leaves heart-shaped, acute, unequally denticulate, pubescent underneath, with the lobes approximate.
Hermaph. Thyrses ovate: nearly all the florets hermaphrodite.
T. Petasites. *Engl. Bot. t. 431. Curt. Lond. fasc. 2. t. 59.*
Fem. Thyrses oblong: female-florets very numerous.
T. hybrida. *Engl. Bot. t. 430. Dill. Elth. t. 230. f. 279.*
Wet marshes, and on the sides of ditches.
- spuria.* Thyrses oblong: ray none: leaves oblong-heart-ed, unequally denticulate, clothed with thick down underneath, with divaricate 2-lobed lobes.
Herm. Thyrses close: female florets 3-together.
Fem. Thyrses long: female florets numerous, petaloid.
Germany. *Retz obs. 1. p. 29. tab. 2.*
- palmata.* Thyrses flat-topped: flowers obscurely radiate: leaves roundish-heart-ed, half 7-lobed, cut-toothed downy underneath.
North America. *Aiton, kew. 3. p. 188. tab. 11.*

1519. SENECEO. *Receptacle* naked: *down* simple:
calyx invested with scales, many-leaved, equal,
 cylindrical: the leaves dead at the tip.

Groundsel, Rag-wort.

A Flowers without ray.

reclinatus. Calyx swelling, somewhat imbricate: leaves filiform-linear,
 very entire glabrous.

The Cape. *Jacq. ic. rar.* 1. t. 174. *L'Herit. stirp.* 9. tab. 5.

angustifolius Leaves linear, very entire, glabrous: flowers paniced.

The Cape, *Thunb. prodr.* 156. *Jacobæa*.

mucronatus. Leaves linear, very entire, mucronate, downy underneath:
 flowers paniced.

The Cape. *Thunb. prodr.* 156. *Jacobæa*.

virveus. Leaves linear, rather obtuse, very entire, woolly: flowers
 solitary, terminal.

The Cape. *Thunb. prodr.* 156. *Jacobæa*.

bieracifolius Leaves oblong, clasping, unequally and deeply toothed:
 stem herbaceous, wand-like.

America. *Pluk. Phyt.* t. 112. f. 1. *Herm. Parad.* t. 226.

Stem-leaves lanceolate, slightly ferrate, nodding.

purpureus. Leaves lyrate, hairy: upper-ones lanceolate, toothed.

The Cape. *Jacq. ic. rar.* 3. p. 589. *Cacalia villosa*.

cernuus. Leaves elliptic, tooth-ferrate, a little hairy: peduncles
 elongated, 1-flowered.

East Indies. *Jacq. hort.* 3. tab. 98.

crubescens. Leaves lyrate, hairy both sides, viscid; upper-ones oblong-
 lanceolate, toothed: stems ascending.

The Cape. *Aiton. kew.* 3. p. 190.

perficifolia. Leaves lanceolate, entire, toothed at the base.

The Cape. *Leaves* clasping, downy underneath.

biflorus. Leaves linear, flat, slightly toothed, smooth: peduncles
 about 2 flowered: stem shrubby.

Arabia. *Vahl. symb.* 1. p. 72. Peduncles 1-4-flowered.

paniculatus. Leaves linear-subulate, somewhat pinnatifid, approximate;
 upper-ones distant, toothed at the base: flowers solitary.

The Cape. *Thunb. prodr.* 156. *Jacobæa*.

- bidentatus*. Leaves linear-elliptic, toothed, downy; flowers sessile.
The Cape. *Thunb. prodr.* 156. *Jacobaea*.
- scaber*. Leaves oblong, ferrate, rough: panicles compound.
The Cape. *Thunb. prodr.* 156.
- vestitus*. Leaves ovate, ferrate, glabrous: panicle compound.
The Cape. *Thunb. prodr.* 156.
- virgatus*. Leaves lyrate, downy underneath: peduncles 1-flowered,
with subulate scales.
The Cape. *Thunb. prodr.* 157. *Jacobaea tomentosa*?
- divaricatus*. Leaves lanceolate, toothed, rough: flowering branchlets
divaricate.
China. *Calyx* with a few lax scales at the base.
- croaticus*. Leaves oblong-lanceolate, closely ferrate, glabrous: flowers
corymbed.
Croatia. *Waldst. Kitaib. Hung.*
- Pseudochina*. Leaves lyre-pinnatifid, toothed: scape nearly naked, very
long.
East Indies. *Dill. Elth. t. 258. f. 335.*
- japonicus*. Leaves pinnatifid, with lanceolate, acute, cut segments;
stipules leafy, somewhat palmate.
Japan. *Aiton. Kew. 3 p. 190.*
- vulgaris*. Leaves clasping, pinnatifid and toothed: flowers in a con-
tracted corymb.
Wales. *Eng. Bot. t. 747. Curt. Lond. fasc. 1. t. 61.*
- paucedani-
folius*. Leaves pinnate, filiform.
The Cape. *Jacq. ic. rar. 3. p. 581. Cacalia.*
- arabicus*. Leaves pinnatifid and deeply cut, petioled, smooth: calyx-
scales not dead at the tip.
Egypt. *Peduncles* many-flowered.
- vertenafo-
lius*. Leaves obovate, petioled, cut-toothed: peduncles filiform,
3-flowered.
Egypt. *Jacq. hort. 1. t. 3. Leaves* not sinuate.
- B. *Flowers* radiate, with the ray revolute.
- triflorus*. Leaves petioled, oblong, sinuate: peduncles about 3-flower-
ed: calyx conic, the scales very small and not dead at
the tip.
Egypt. *Peduncles* longer than the leaves.

- egypticus*. Leaves clasping, linear-lanceolate, pinnatifid: calyx-scales shorter, dead at the tip.
Egypt. *Hort. Ups.* 241.
- australis*. Leaves linear-lanceolate, very entire, with a tooth or two at the base, pubescent underneath.
New-Zealand. *Willd.* 3. p. 1981.
- lanceus*. Leaves oblong-lanceolate, petioled, equally ferrate; the upper-ones very entire.
New Zealand. *Forst. prodr. n.* 538.
- crassifolius*. Leaves clasping, fleshy, lance-linear, obtusely sinuate: peduncles scaly.
France, Italy. *Barr. ic.* 261. Jacobæa.
- humilis*. Leaves lanceolate, tapering to the base, tooth-ferrate: stem procumbent.
Barbary. *Desfont. Atl.* 2. t. 233. Leaves obtuse.
- leucanthemifolius*. Leaves spatulate, cut-crenate: corymb few-flowered.
Barbary. *Desfont. Atl.* 2. p. 271.
- auritus*. Leaves pinnatifid, clasping, with remote obtuse unequally toothed segments: ray hardly visible.
Barbary. *Desfont. Atl.* 2. p. 272.
- giganteus*. Leaves petioled; lower-ones lyre-pinnatifid, toothed: upper-ones oblong, unequally and coarsely ferrate: corymb divaricate.
Algeira, *Desfont. Atl.* 2. p. 235. Stem 5 or 6 feet high.
- laidus*. Leaves clasping, lanceolate, toothed: calyx-scales very short, not dead at the top.
Spain. *Hort. Ups.* 201.
- telephifolius*. Leaves obovate-wedge-form, ferrate at top, clasping, glabrous.
The Cape. *Jacq. fragm. bot.* 1. tab. 1. f. 3. Stem hairy.
- trilobus*. Leaves clasping, obovate, 3-lobed and ferrate at top: calyx-scales dead at the top.
Spain. *Hort. Ups.* 261.
- cinerascens*. Leaves pinnatifid; downy, revolute at the margin: panicle spreading: outer calyx-scales spreading.
The Cape. *Jacq. hort. Schanb.* 2. p. 12. tab. 150.
- javanicus*. Leaves linear, pinnatifid-toothed.
Java. *Burm. ind.* 181. t. 60. f. 5. *S. coronopifolius*.

- viscosus*. Leaves pinnatifid, viscid: outer calyx-scales lax, nearly as long as the inner.
Wastes. *Eng. Bot. t. 32.* Plant clammy.
- sylvaticus*. Leaves pinnatifid, with the lobes denticulate: outer calyx-scales very short: stem erect, stiff, corymbed.
Woods. *Eng. Bot. t. 748.* Plant not viscid.
- coronopifolius*. Leaves pinnatifid, with linear and nearly entire segments: stem erect; corymbed.
Spain. *Willd. 3. p. 1985.* Leaves very narrow.
- multifidus*. Leaves doubly pinnatifid, linear.
Java. *Burm. ind. tab. 60. f. 4.* *S. tenuifolius*.
- nebrodensis*. Leaves lyrate, sinuate, petioled, obtuse: stem hairy.
Spain, Sicily. *Barr. rar. t. 401.* *Jacobæa*.
- glaucus*. Leaves clasping, lanceolate, obtuse, toothed, entire.
Egypt. *Plant cinereous, pubescent.*
- varicosus*. Leaves ovate, petioled, toothed, with various dots.
Egypt. *Linn. dec. 9. tab. 5.* Leaves red beneath.
- C. Flowers radiate; the ray spreading: leaves pinnatifid.*
- basilatus*. Petioles clasping: peduncles thrice as long as the leaves: leaves pinnate-sinuate.
The Cape. *Dill. Elth. t. 152. f. 184.* *Jacobæa*.
- squamosus*. Leaves clasping, cut-toothed, rough above, downy underneath: flowers racemed.
The Cape. *Thunb. prodr. 158.*
- incisus*. Leaves clasping, cut-toothed, glabrous above, downy underneath: panicle compound.
The Cape. *Thunb. prodr. 158.*
- carnosus*. Leaves petioled, lyrate; cut-toothed, fleshy: stem decumbent.
The Cape. *Thunb. prodr. 158.*
- abruptus*. Leaves clasping, oblong, villous, cut-pinnatifid, toothed: stem herbaceous, paniced.
The Cape. *Thunb. prodr. 159.*
- lyratus*. Hairy: lowest-leaves lyrate, toothed; uppermost ferrate, clasping; the lobes muricate on the edge.
The Cape. *Leaves almost pinnatifid.*
- spiræifolius*. Root-leaves pinnatifid, rough and hairy: flowers paniced.
The Cape. *Thunb. prodr. 159.*

- pubigerus*. Petioles radical, woolly : leaves runcinate : stems quite simple : flowers lateral, sessile.
The Cape. *Breyn. cent. t. 65. Moris. f. 7 t. 18. f. 32.*
- vernalis*. Leaves clasping, pinnatifid, hairy, with curled teeth : stem woolly.
Hungary. *Waldst. Kitaib. Hung. 1. p. 23. tab. 24.*
- montanus*. Leaves clasping, lyre-pinnatifid, toothed, flat, glabrous : stem glabrous.
Germany. *Willd. 3. p. 1989.*
- rupestris*. Leaves clasping, pinnatifid, glabrous above, with angular-toothed segments : stem and calyx glabrous.
Hungary. *Waldst. Kitaib. Hung. 2. tab. 128.*
- dentatus*. Leaves half-clasping, pinnatifid, with linear acute toothed distant segments : stem and calyx glabrous.
The Cape. *Jacq. collect. 5. p. 150. tab. 6. f. 2.*
- venustus*. Stem, calyx, and leaves glabrous : leaves pinnatifid, with linear acute toothed segments.
The Cape. *Aiton. kew. 3. p. 119.*
- elegans*. Leaves viscid-hairy, pinnatifid, equal, much spread, with the margin thickened and recurved : calyx hairy.
The Cape. *Curt. Magaz. t. 238. Comm. hort. 2. t. 30.*
- * *squalidus*. Leaves half-clasping, pinnatifid, with linear slightly toothed acute distant segments : stem erect.
Wastes about Oxford. *Engl. Bot. t. 600.*
- erucifolius*. Leaves clasping, pinnatifid, with lance-linear pointed toothed segments, hairy : stem erect,
Europe. *Calyx scales reddish at the tips.*
- speciosus*. Stem simple, nearly naked : leaves radical, petioled, oblong, toothed, ciliate.
China. *Andrews bot. repos. t. 291. S. Pseudo-China.*
- erosus*. Leaves radical, petioled, oblong, sinuate, ferrate, villous : stem 1-flowered, nearly naked.
The Cape. *Leaves downy towards the root.*
- uniflorus*. Leaves downy, oblong, toothed : stem leafy, 1-flowered.
Alps. *A'lion. Ped. t. 17. f. 3. Pluk. phyt. t. 39. f. 7.*
- incanus*. Leaves snowy-downy both sides, pinnatifid, with linear obtuse slightly-toothed segments : corymb close.
Alps. *Pluk. phyt. t. 39. f. 6. Bocc. Mus. 2. tab. 8.*

- carniolicus*. Leaves lanceolate, nearly doubly-pinnatifid, hoary underneath : corymb compact.
Alps. *Calyx* pubescent, very sphacelate at top.
- parviflorus*. Ray a little longer than the calyx : leaves snowy-downy both sides, pinnatifid, with oblong toothed segments.
Alps. *Allion. Pedem. n. 727. tab. 38. f. 3.*
- muricatus*. Leaves pinnate, bristly, with linear leaflets : flower paniced.
The Cape. *Thunb. prodr. 159.*
- laevigatus*. Leaves pinnate, glabrous, with linear entire and toothed leaflets : stem glabrous.
The Cape. *Thunb. prodr. 159.*
- grandiflorus*. Leaves pinnatifid, with linear-subulate segments.
The Cape. *Pluk. mant. 106. t. 422. f. 5. Jacobæa.*
- abrotanifolius*. Leaves pinnatifid in many linear naked acute segments : peduncles about 2-flowered.
Alps. *Jacq. Aust. t. 79.* Root-leaves doubly pinnate.
- myrrbisfolius*. Leaves doubly pinnatifid, toothed, hairy : flowers paniced.
The Cape. *Thunb. prodr. 159.*
- diffusus*. Leaves doubly pinnate, linear : stems diffuse.
The Cape. *Linn. suppl. 371. Thunb. prodr. 159.*
- canadensis*. All the leaves doubly pinnate, linear : peduncles corymbed.
Canada. Leaves glabrous, uppermost simply pinnate.
- delphinifolius*. Leaves pinnate, with linear 3-parted leaflets, revolute at the margin, villous underneath : stem somewhat woolly.
Barbary. *Vahl. symb. 2. tab. 45.*
- * *tenuifolius*. Leaves pinnatifid, somewhat revolute, hoary-pubescent underneath : stem erect, villous.
Woods. *Engl. Bot. t. 574. Curt. Lond. fasc. 5. t. 64.*
- * *Jacobæa*. Leaves doubly pinnatifid, somewhat lyrate, divaricate, toothed, glabrous : stem erect.
Wastes. *Eng. Bot. t. 1130. Mart. fl. rust. t. 85.*
- * *aquaticus*. Lower-leaves elliptic, undivided, toothed ; upper-ones lyrate and ferrate : florets elliptic.
Marshes. *Engl. Bot. t. 1131. Flor. Dan. t. 784.*
- auriculatus*. Leaves lanceolate, lyrate and pinnate, toothed, naked : petioles appendaged.
Arabia. *Vahl. symb. 1. p. 72. tab. 118.*

- aureus.* Root-leaves ovate, hearted, ferrate, petioled; stem leaves pinnatifid, toothed, with the terminal division lanceolate: peduncles thickened.
Virginia, Canada. *Sp. pl.* 1220.
- Balsamita.* Root-leaves oblong, ferrate, petioled; stem-leaves pinnately, ferrate: flowers umbelled: stem villous at the base.
North America. *Willd.* 3. p. 1998. Peduncles not thickened.
- obovatus.* Root-leaves obovate, ferrate, petioled: stem-leaves pinnatifid, toothed: flowers umbelled: stem nearly glabrous
North America. *Willd.* 3. p. 1999. Serratures obtuse.
- umbellatus.* Ray linear: leaves pinnate, denticulate, with distant divisions.
The Cape. *Leaflets* linear, long, remote.
D. *Flowers* radiate, with the ray spreading: leaves undivided.
- linifolius.* Leaves linear, very entire: corymb somewhat scaly: stem herbaceous.
Spain, Italy. *Bocc. mus.* 2. t. 49. *Barr. rar.* t. 802.
Peduncle with small acute scales: calyx not sphacelate.
- juniperinus.* Leaves lance-subulate, downy underneath: stem shrubby.
The Cape. *Leaves* revolute at the sides.
- rosmarinifolius.* Leaves lance-linear, nearly entire and glabrous: corymb contracted, terminal, peduncled: stem shrubby.
The Cape. *Jacq. ic. rar.* 3. tab. 587.
- asper.* Leaves lance-linear, toothed, rigid, rough: corymbs terminal and axillary, peduncled: stem shrubby.
The Cape. *Ait. kew.* 3. p. 196
- striatus.* Leaves linear, very entire, downy: flowers solitary.
The Cape. *Thunb. prodr.* 157.
- cruciatus.* Leaves linear, downy underneath; lower-ones cruciate; upper-ones entire.
The Cape. *Leaves* rigid, mucronate.
- rigescens.* Leaves lance-linear, somewhat downy, glaucous, sharply denticulate and very entire: corymb contracted, terminal: stem shrubby.
The Cape. *Jacq. collect.* 5. p. 150. tab. 6. f. 1.
- simulatus.* Leaves linear, tooth-pinnate, glabrous: flowers panicled: stem hairy, rough.
The Cape. *Thunb. prodr.* 157.

- * *paludosus*. Leaves half-clasping, lanceolate, pointed, sharply serrate, somewhat downy underneath: stem stiff.
Marshes. *Eng. Bot. t. 650 Flor. Dan. t. 385.*
- badiensis*. Corols 5-rayed: leaves elliptic, petioled, very entire and denticulate: stem shrubby.
Arabia. *Forst. ic. t. 19.* Plant quite glabrous.
- nemorensis*. Leaves ovate-lanceolate, serrate, ciliate on the margin, with very thin down underneath, sessile, unequal at the base.
Germany, Austria. *Jacq. Austr. t. 184. obs. 3. t. 65. 66.*
- ovatus*. Leaves ovate-lanceolate, sharply serrate, glabrous both sides, nearly sessile.
Germany. *Willd. 3 p. 2004.* Upper-leaves petioled.
- * *saracenicus*. Leaves lanceolate, wedge-shaped at the base, sharply serrate, nearly sessile and glabrous.
Marshes. *Jacq. Austr. t. 186.* Leaves acute.
- coriaceus*. Calyx-scales appressed: leaves somewhat decurrent, a little villous underneath, lanceolate, serrate.
Levant. *Dill. Elth. tab. 105 f. 125.* Doria.
- Doria*. Outer calyx-scales spreading: leaves somewhat decurrent, oblong-lanceolate, a little glaucous, glabrous, serrate.
Germany, Austria. *Jacq. Austr. t. 185.*
- orientalis*. Outer calyx-scales lanceolate, spreading: leaves somewhat decurrent, lanceolate, glabrous, denticulate: corymb quite simple, terminal.
Armenia. *Willd. 3, p. 2006.* Plant glabrous.
- Barrelieri*. Leaves rough, serrate: radical ones oblong, somewhat hearted; stem-leaves lanceolate: corymb simple, terminal: stem hairy.
Pyrenees. *Bocc. Musf. 2. t. 29.*
- Doronicum*. Stem undivided, about 1-flowered: leaves undivided, serrate: radical ones ovate, villous underneath.
Alps. *Jacq. Austr. 5 app. t. 45.*
- arenarius*. Leaves clasping; upper ones oblong, hairy, unequally serrate: flowers solitary.
The Cape. *Thunb. prodr. 158.*
- lanceus*. Leaves lanceolate, heart-shaped and clasping at the base, smooth, sharply serrate: stem shrubby.
The Cape. *Ait. kew. 3. p. 194.*

- glasifolius*. Leaves clasping, lanceolate, slightly toothed, smooth.
The Cape. *Panicle* terminal.
- oporus*. Leaves clasping; lower-ones lanceolate, ferrate; floral-ones dilated at the base, ovate, ferrate, lanceolate, and very entire at the tip.
The Cape. *Jacq. Schænb.* 3. t. 304. *S. lanceus*.
- longifolius*. Leaves linear, scattered: stem shrubby.
The Cape. *Pluk. mant.* t. 421. f. 5. *Comm. Hort.* 2. t. 71.
- undulatus*. Leaves clasping, heart-lanceolate, glabrous: flowers panicled.
The Cape. *Thunb. prodr.* 157.
- byzantinus*. Leaves oblong, remotely toothed, with spinous denticles, naked above: stem herbaceous.
Byzantium. *Leaves* revolute, with acute teeth.
- heterophyllus*. Leaves lanceolate, glabrous; lower ones somewhat petioled, deeply toothed; upper-ones sessile, nearly entire.
The Cape. *Thunb. prodr.* 157. Flowers panicled.
- balimifolius*. Leaves obovate, fleshy, slightly toothed: stem shrubby.
The Cape. *Dill. Elth.* t. 104. f. 124. *Doria*.
- marginatus*. Leaves clasping, lanceolate, glabrous, somewhat jointed, margined: corymb compound.
The Cape. *Leaves* entire and ferrate.
- maritimus*. Leaves clasping, ovate, denticulate, fleshy: stem herbaceous, procumbent.
The Cape. *Whole plant* rather fleshy.
- lanatus*. Leaves sessile, woolly both sides, toothed; lowermost ovate; upper-ones lanceolate.
The Cape. *Linn. suppl.* 370. *Thunb. prodr.* 158.
- mollis*. Leaves downy both sides, oblong, toothed: upper-ones clasping; lower-ones petioled.
Galatia. *Willd.* 3. p. 2011. *Corymb* terminal.
- quercifolius*. Leaves clasping, oblong, cut-ferrate, downy underneath: panicle simple.
The Cape. *Thunb. prodr.* 158.
- alicifolius*. Leaves oblong, sessile, toothed, downy underneath; upper-ones clasping, toothed at the base only: corymb simple.
The Cape. *Comm. rar.* t. 42. *Seba Mus.* 1. t. 22. f. 4.
- erispus*. Lowest-leaves petioled: upper-ones sessile, glabrous, undulately denticulate: flowers terminal.
The Cape. *Thunb. prodr.* 157.

- crenatus.* Leaves petioled, ovate, ferrate, glabrous: panicle compound.
The Cape. *Thunb. prodr.* 158.
- angulatus.* Leaves petioled, ovate, tooth-angular, glabrous.
The Cape. *Leaves* somewhat fleshy, glaucous.
- cordifolius.* Leaves heart-shaped, toothed: calyx simple.
The Cape. *Calyx* not invested with scales.
- repandus.* Leaves petioled, ovate, repand-crenate, glabrous; flowers
panicled.
The Cape. *Thunb. prodr.* 158.
- rigidus.* Leaves clasping, spatulate, repand, eroded, rough: stem
shrubby.
The Cape. *Comm. hort.* 2. t. 75: *Seba. Mus.* 1. t. 22. f. 5.
- solidagino-*
ides. Leaves sessile, obovate, toothed at top, glaucous; younger-
ones silky-downy: corymb compound, terminal.
The Cape. *Heutt. Linn. syst.* 4 t. 32 f. 1. *Jacobæa.*

1520 ASTER. *Receptacle* naked: *down* simple:
florets of the margin more than 10: *calyx* im-
bricate, with the lower-scales spreading.

Star wort, Michaelmas daisy.

A. *More or less shrubby.*

- taxifolius.* Leaves decurrent, subulate, channeled, ciliate: flowers
terminal.
The Cape. *Houtt. syst.* 4 t. 32. f. 2. Leaves imbricate.
- reflexus.* Leaves ovate, somewhat imbricate, recurved, ferrate and
ciliate: flowers terminal.
The Cape. *Andr. repos.* t. 93. Leaves glabrous.
- erinitus.* Leaves ovate-oblong, acute, downy underneath: calyx-
scales ending in a hair.
The Cape. *Leaves* rough on the edge: ray blue.
- tomentosus.* Leaves ovate, ferrate, spreading, downy underneath: flowers
terminal, 2 or 3 together.
New Holland. *Andrews. repos.* t. 61. A. *dentatus.*
Leaves rough above, pale ferruginous underneath.
- sericeus.* Leaves oblong lanceolate, sessile, very entire, 3-nerved,
silky-downy: flowers terminal.
— *Ventenat. hort. Cels.* t. 83. Calyx silky.
- hirtus.* Leaves obovate, obtuse, pubescent: calyx imbricate,
The Cape. *Thunb. prodr.* 159.

- Cymbalaria* Leaves petioled, roundish-ovate, hairy, with a tooth or two each side: peduncles 1-flowered, long, terminal.
The Cape. *Ait. herb.* 3 p. 197. Leaves small, long.
- carolinianus* Leaves oblong, very entire, tapering to both ends: calyx-scales lanceolate, spreading every way: branchlets pubescent.
Carolina. *Willd.* 3. p. 2017. Peduncles 1-flowered.
- heterophyllus* Lowest leaves oblong; uppermost linear, unarmed, glabrous.
The Cape. *Thunb. prodr.* 160.
- villosus*. Leaves linear filiform, obtuse, hairy: calyx imbricate: stem shrubby.
The Cape. *Thunb. prodr.* 159.
- angustifolius* Leaves linear, acute, not dotted, a little hoary: peduncles terminal, solitary, 1-flowered, elongated.
The Cape. *Jacq. Hort. Schænb.* 3. p. 63. *tab.* 370.
- abusatus*. Leaves linear, fleshy, glabrous, dotted, obtuse: peduncles 1-flowered: calyx imbricate, shorter than the disk.
The Cape. *Thunb. prodr.* 159. Peduncles short.
- fruticulosus*. Leaves linear, rather obtuse, glabrous, dotted: peduncles 1-flowered, elongated: calyx imbricate, as long as the disk.
The Cape. *Jacq. fragm. bot. t.* 5. *f.* 4. *Comm. hort.* 2. *t.* 27.
- B. *Herbaceous: stem 1 or 2-flowered.*
- alpinus*. Stem 1-flowered: leaves very entire; radical-ones lance-spatulate; stem-leaves lanceolate: calyx-scales nearly equal, lanceolate, rather obtuse.
Alps. *Curt. Magaz* 199. *Jacq. Aust.* 1. *t.* 88.
- pulchellus*. Stem 1-flowered: leaves very entire; radical-ones spatulate; stem-leaves linear-lanceolate: calyx-scales nearly equal, linear, pointed.
Armenia. *Willd.* 3 p. 2019. Calyx hairy.
- holosericeus* Leaves oblong, lanceolate, ferrate, silky-silvery underneath: scapes 1-flowered, leafy.
New Zealand. *Forst. prodr. n.* 296. Scape compressed.
- coriaceus*. Leaves ovate, very entire, grooved towards the top, woolly underneath: scapes 1-flowered, leafy, woolly.
New Zealand. *Forst. prodr. n.* 297.
- caucasicus*. Stem 1-flowered: leaves ovate, sessile, ferrate, roughish: calyx-scales nearly equal, linear.
Caucalus. *Willd.* 3. p. 2020. *Count Muffin Puschin.*

- biflorus*. Stem 1 or 2-flowered: leaves sessile, lanceolate, ferrate, rough: calyx-scales imbricate, appressed, ovate.
Canada. *Willd.* 3 p. 2020.
C. *Herbaceous: leaves linear or lanceolate, very entire.*
- tenellus*. Leaves filiform, ciliate with prickles: calyx hemispherical, with equal leaflets.
The Cape. *Curt. Magaz.* t. 33. *Jacq obs.* 4. t. 88.
- strigosus*. Leaves linear-lanceolate, hairy: calyx equal, with stiff bristles: stem herbaceous.
The Cape. *Thunb. prodr.* 159.
- memoralis*. Leaves linear-lanceolate, tapering to the base, nerveless, dotted, roughish; those of the stem reflected: branches in flat-topped corymbs; branchlets filiform, 1-flowered: calyx imbricate, half as long as the disk.
North America. *Ait. kew.* 3. p. 198. Stem-leaves reflected.
- hyssopifolius*. Leaves linear-lanceolate, 3-nerved, dotted, acute, rough on the margin: branchlets in flat-topped contracted corymbs: ray about 5-flowered: calyx imbricate, half as long as the disk.
North America. *Leaves* very entire, sessile.
- punctatus*. Leaves linear, remote, 3-nerved, pointed, dotted, rough on the margin; branchlets in flat topped, divaricate corymbs: ray about 7 flowered: calyx imbricate, half as long as the disk.
Hungary. *Waldst. Kitaib. Hung.* 2 tab. 109.
- acris*. Leaves linear-lanceolate, glabrous, not dotted, 3-nerved: branchlets in umbelled corymbs: calyx imbricate, half as long as the disk.
Pyrenees. *Pluk. alm.* t. 271 f. 3. *Garid. Aix.* t. 11.
- cannus*. Leaves linear-lanceolate, very entire, 3-nerved, pubescent and hoary both sides: branches corymbed, divaricate: calyx imbricate, half as long as the disk.
Hungary. *Waldst. Kitaib. Hung.* 1. tab. 30.
- solidagionoides*. Leaves linear-lanceolate, obscurely 3-nerved, very entire obtuse, rough on the margin: branches in flat-topped corymbs: calyx imbricate, half as long as the disk with oblong obtuse appressed scales.
North America. *Pluk alm.* t. 79. f. 2.
- linifolius*. Leaves linear, very entire, nerveless, dotted, rough, spreading and reflected: branches in flat topped corymbs: calyx imbricate: ray as long as the disk.
North America. *Corymb* terminal, contracted.

knariifolius Leaves linear, mucronate, nerveless, not dotted, rough on the margin; those of the stem erect, of the branches spreading: stem branched above; branches flat-topped, 1-flowered: calyx imbricate, as long as the disk.

North America. *Pluk. alm. t. 14. f. 7.* Stems purplish.

pilosus. Leaves linear-lanceolate, very entire, white villous: stem branched, villous; branchlets somewhat leaning one way, 1-flowered: calyx imbricate, with lanceolate mucronate scales.

North America. *Willd 3. p. 2025.* Calyx scales lax.

foliosus. Leaves linear-lanceolate, tapering to both ends, very entire, pointed: stem pubescent, panicled, erect: branches few flowered: calyx imbricate, with linear acute appressed scales.

North America. *Dill Elth. tab. 35. f. 39.*

tenuifolius. Leaves linear-lanceolate, tapering to both ends, very entire, bristly on the margin: stem glabrous, branched, erect: branchlets 1-flowered: calyx imbricate, with oblong acute lax scales.

North America. *Pluk alm. tab 78 f. 5.*

dumosus. Leaves linear, very entire, glabrous; those of the branchlets very short: branches panicled: calyx cylindrical, closely imbricate.

North America. *Pluk. alm. tab. 78. f. 6.*

ericoides. Leaves linear, very entire and glabrous; those of the branchlets subulate, approximate; of the stem elongated: calyx somewhat squarrous, with acute leaflets: stem glabrous.

North America. *Calyx* spreading, oblong.

multiflorus. Leaves linear, very entire, nearly glabrous: stem much branched, diffuse, pubescent; branchlets leaning one way: with oblong spreading acute scales.

North America. *Dill. Elth. t. 36. f. 40.*

ciliatus. Leaves very entire, ciliate; those of the stem linear-lanceolate, nerved; of the branches very short, lanceolate, 3-nerved: stem branched, pubescent: branches panicled: calyx imbricate, with spatulate spreading scales.

North America. *Willd. 3. p. 2027.* Stem purplish.

cordifolius. Leaves linear, obtuse, reflected, bristly on the margin: stem branched, diffuse, glabrous: branchlets 1-flowered: calyx imbricate, with linear spatulate obtuse scales.

North America. *Willd 3. p. 2028.* Flowers blue.

- squarrosus*. Leaves ovate, pointed, very entire, reflected, bristly on the margin: stem branched, hairy: branchlets 1 flowered: calyx imbricate, with wedge-linear acute spreading scales.
Carolina. *Willd. 3 p. 2028.* Stem purplish.
- concolor*. Leaves oblong-lanceolate, very entire, hoary-pubescent both sides: stem quite simple, erect, pubescent: raceme terminal: calyx imbricate, with lanceolate, silky appressed scales.
North America. *Plant downy: raceme simple.*
- vernus*. Root leaves lanceolate, very entire, obtuse: stem nearly naked, filiform, slightly branched: peduncles naked.
Virginia. *Stem green, hairy: florets white.*
- elongatus*. Leaves lanceolate, rough, bristly: calyx equal.
The Cape. *Thunb prodr. 160.*
- umbellatus*. Leaves lanceolate, very entire, tapering to the base, pointed, rough on the margin: stem simple, corymbd at top: calyx-scales lanceolate, lax.
Pennsylvania. *Ait. kew. 3. p. 199.* Stem glabrous.
- salicifolius*. Leaves linear-lanceolate, very entire, glabrous: calyx imbricate, lax: stem smooth.
North America. *Aiton. kew. 3. p. 203.* Calyx-leaves ovate.
- æstivus*. Leaves lanceolate, somewhat clasping, very entire, tapering to the top, rough on the margin: stem branched from the base, erect; branchlets hairy: calyx-scales lax, linear, acute, equal.
North America. *Ait. kew. 3. p. 203.* Stem bristly.
- pannonicus*. Leaves linear-lanceolate, very entire, bristly on the margin: stem simple, corymbd at top, glabrous: calyx-scales lanceolate, obtuse, equal.
Hungary. *Jacq hort. 1. tab. 8.* Plant glabrous.
- Amellus*. Leaves oblong-lanceolate, very entire, rough: branches corymbd: calyx imbricate, spreading, with obtuse leaflets, the inner-ones membranaceous and coloured at top.
South of Europe. *Jacq. Austr. t. 435. Blackw t. 109.*
- rigidus*. Leaves linear, alternate: flowers terminal, solitary.
Virginia. *Leaves small, rigid: stem simple.*
- Novæ Angliæ*. Leaves lanceolate, clasping, very entire, appendaged at the base: stem hairy, straight: flowers terminal, crowded: calyx-scales lax, coloured, lanceolate, longer than the disk.
New England.. *Herm. Parad. t. 98.* Stem brown.

- spurius.* Leaves lanceolate, clasping, very entire, appendaged at the base: stem panicled, hairy: branches about 1-flowered: calyx-scales lax, lanceolate, as long as the disk.
North America. *Willd. 3. p. 2033.* Calyx not coloured.
- paludosus.* Leaves linear, clasping, erect, very entire and glabrous, rough on the margin: peduncles nearly naked: calyx squarrous.
Carolina. *Aiton. herb. 3. p. 201.* Leaves remote.
- grandiflorus* Leaves linear, rigid, very entire, rather acute, somewhat clasping, those of the branches reflected, ciliate with bristles on the margin: stem branched, hairy: branches 1 flowered: calyx-scales squarrous, linear-lanceolate.
America, *Mill. fig. t. 282. Mart. cent. tab. 19.*
- phlogifolius.* Leaves lanceolate, hearted, very entire, clasping, pubescent underneath: stem quite simple, pubescent, panicled at top: calyx-scales lax, imbricate, lanceolate.
Pennsylvania. *Willd. 3. p. 2034.* Calyx scales rough.
- patens.* Leaves oblong-lanceolate, very entire, ciliate, hearted, clasping, hairy both sides: stem branched, hairy: branches spreading, long, few-flowered: calyx-scales imbricate, lanceolate, spreading
Virginia. *Ait. herb. 3. p. 301..* Branches pubescent.
- D. *Herbaceous: leaves heart-shaped and ovate, serrate.*
- undulatus.* Leaves oblong, hearted, clasping, very entire, hairy, somewhat undulate; lower-ones ovate, hearted, slightly serrate, petioled; petioles winged: stem panicled, bristly: branchlets leaning one way, leafy, 1-flowered.
North America. *Herm. parad. t. 96.*
- sagittifolius* Leaves oblong-lanceolate, sessile, ferrate in the middle; radical ones oblong, heart-arrow-shaped, ferrate, petioled: stem branched, glabrous: calyx lax, imbricate.
North America. *Willd. 3. p. 2035* Calyx-scales lanceolate.
- paniculatus.* Leaves ovate-lanceolate, ferrate, petioled, glabrous; radical-ones ovate-heartd, ferrate, rough, petioled: petioles naked: stem much branched, glabrous: branchlets hairy: calyx lax, somewhat imbricate.
America. *Moris. sect. 7. t. 22. f. 34. Corn. Caned. t. 65.*
- cordifolius.* Leaves heart-shaped, hairy underneath, sharply ferrate: petioles winged: stem panicled, hairy: calyx lax, somewhat imbricate.
America. *Panicle corymbd: ray whitish.*

corymbosus. Leaves ovate, sharply ferrate, pointed; lower ones heart-shaped, petioled, naked: stem branched above in a flat topped corymb: branches hairy: calyx oblong, imbricate, with the scales closely pressed.

North America. *Art. kew.* 3. p. 207. Stem glabrous.

macrophyllus. Leaves ovate, petioled, ferrate; uppermost ovate-hearted, sessile: lower ones heart-shaped, sessile: petioles slightly margined: stem branched, diffuse: calyx cylindrical, closely imbricate.

North America. Ray white or blue.

chinensis. Leaves ovate, coarsely toothed, petioled; those of the stem sessile, wedged-shaped at the base; floral ones lanceolate, very entire: stem bristly: branches 1-flowered; calyx foliaceous.

China. *Dill. Elth.* 1. 34. f. 38. *Knorr. del.* 1. t. S. 3, 4, 5.

E. *Herbaceous: leaves ovate, very entire.*

rotundifolius. Leaves hairy-bristly: calyx equal.

The Cape. *Thunb. prodr.* 160.

humilis. Leaves acute, petioled, glabrous, bristly on the margin: flowers corymbed: calyx lax, imbricate.

Pennsylvania. *Willd.* 3. p. 2038. Stem simple, glabrous.

cernifolius. Leaves oblong-ovate, pointed, petioled, glabrous, rough on the margin: stem glabrous: panicle few-flowered: calyx somewhat imbricate.

Pennsylvania. *Willd.* 3. p. 2039.

F. *Herbaceous: leaves lanceolate; the lower-ones more or less ferrate.*

**Tripolium*. Leaves linear-lanceolate, fleshy, triply nerved: lower-ones obscurely ferrate at top: stem glabrous, corymbed: calyx equal.

Muddy shores. *Eng. Bot.* 1. 87. *Flor. Dan.* 1. 615.

salignus. Leaves linear-lanceolate, sessile, rough on the margin: lower-ones lanceolate, ferrate at top: stem panicled, glabrous, erect: calyx lax, imbricate.

Germany, Hungary. Ray white, becoming bluish.

panicus. Leaves clasping, roughish: branches panicled: calyx lax, longer than the disk, with linear-lanceolate nearly equal leaflets: stem bristly.

North America. *Herm. Ladgb. tab.* 651.

- tataricus*. Root-leaves lance ovate, rough : stem few flowered.
Siberia. *Root-leaves* not serrate at the base or top.
- annuus*. Leaves a little hairy ; lower ones somewhat ovate, serrate ;
upper ones lanceolate : calyx hemispherical, with
nearly equal bristly leaflets.
Canada, Germany. *Corn. Can. t.* 194. *Flor. Dan. t.* 846.
- dentatus*. Leaves linear, toothed, hairy.
The Cape. *Thunb. prodr.* 159.
- serratus*. Leaves lanceolate, acute, ciliate with serratures: calyx equal.
The Cape. *Thunb. prodr.* 160.
- indicus*. Stem-leaves oblong, serrate; those of the branches linear-
lanceolate, obtuse, nearly entire : stem hairy: branches
1-flowered: outer calyx-scales foliaceous.
East Indies. *Pluk. alm. t.* 149. *f.* 3.
- imbricus*. Leaves lanceolate, somewhat clasping, serrate, rough with
hairs: calyx lax, with lanceolate pointed bristly folia-
ceous leaflets.
Siberia. *Gmel. Sib. 2. t.* 80. *f.* 1. 2). Leaves narrower.
- elegans*. Leaves rough; those of the stem oblong-lanceolate, very
entire, acute; radical ones petioled, oblong, serrate :
stem branched, corymbd: calyx-scales oblong-wedge-
form, obtuse, squarrous.
—— *Willd. 3. p.* 242. Stem-leaves pointed.
- bispidus*. Leaves oblong-lanceolate, rough, ciliate, slightly serrate ;
lowermost ovate, serrate : stem panicled, bristly :
branchlets 1-flowered ; calyx-scales oblong, imbricate.
Japan. *Banks. ic. Kämpf tab.* 49. Lowest leaves obtuse.
- scaber*. Leaves oblong, serrate, rough : peduncles panicled.
Japan. *Thunb. Jap.* 316. Stem glabrous.
- conyzoides*. Leaves oblong, 3-nerved, narrowed at the base, acute ;
upper-ones sessile, nearly entire ; lower-ones petioled,
serrate : stem simple, corymbd at top : calyx cylin-
drical, squarrous, longer than the ray.
North America. *Calyx scales* ovate, white tipped with green.
- divaricatus*. Branches divaricate : leaves ovate, serrate; floral-ones very
entire, rather obtuse, clasping.
Virginia. *Pluk. alm. tab.* 79. *f.* 1.
- radula*. Leaves lanceolate, serrate, pointed, wrinkled, very rough :
calyx imbricate, with lanceolate, obtuse leaflets.
Nova Scotia. *Aiton. kew. 3 p.* 210.

- laevis.* Leaves clasping, oblong, very entire, lucid; radical-ones slightly ferrate: branches simple, 1-flowered: calyx imbricate, with somewhat wedge-form acute leaflets thickened at top: stem glabrous.
America. *Aiton. herb.* 3.p. 206.
- mutabilis.* Leaves somewhat clasping, upper-ones lanceolate, pointed, very entire; lower-ones lanceolate, narrowed at the base, ferrate: branchlets wand-like: calyx lax, shorter than the disk: stem glabrous.
America. *Herm. Lugdb t.* 67. *Pluk. alm. t.* 376. *f.* 1.
- versicolor.* Leaves somewhat clasping, broad lanceolate, slightly ferrate: radical-ones ferrate in the middle: stem much branched, glabrous: calyx-scales lanceolate, lax, shorter than the disk.
North America. *Willd.* 3 p. 2045. Upper-leaves entire.
- laevigatus.* Leaves somewhat clasping, broad lanceolate, slightly ferrate: stem much branched, glabrous: calyx-scales lanceolate, lax, about as long as the disk.
America. *Willd.* 3. p. 2046. Branchlets many flowered.
- prenan-
thoides.* Leaves clasping, spatulate-lanceolate, ferrate in the middle, hearted at the base: branchlets hairy: calyx-scales lanceolate, much spread.
Pennsylvania. *Willd.* 3. p. 2046. Ray blue.
- amplexicau-
lis.* Leaves ovate-oblong, acute, clasping, hearted, ferrate: stem panicled, glabrous: calyx-scales lanceolate, closely imbricate.
Pennsylvania. *Willd.* 3. p. 2046. Flowers blue.
- vimineus.* Leaves sessile, lanceolate, pointed; lower-ones ferrate: stem branched, glabrous, divaricate: flowers racemed: calyx-scales lanceolate, lax.
Canada. *Lamarck encycl.* 1. p. 303.
- Tradescanti.* Leaves lanceolate, ferrate, sessile, glabrous: branches wand-like: calyx imbricate: stem round, glabrous.
Virginia. *Flowers* white or blue.
- recurvatus.* Leaves sessile, narrow lanceolate, tapering to the base; lower-ones ferrate in the middle: stem branched, glabrous, recurved: calyx-scales lax, somewhat imbricate.
North America. *Willd.* 3. p. 2047. Stem bent down.
- floribundus.* Leaves somewhat clasping, lanceolate, lower-ones ferrate: stem glabrous: branches corymb; branchlets hairy: calyx-scales lax, lanceolate, imbricate.
North America. *Willd.* 3. p. 2048. Corymb many-flowered.

Novi Belgii Leaves somewhat clasping, lanceolate, glabrous, rough on the margin; lower-ones ferrate: branches slightly divided: calyx laxly imbricate, with linear-lanceolate leaflets: stem round, glabrous.

Virginia. *Herm. Lugdb.* t. 69. Leaves often glaucous.

spectabilis. Leaves lanceolate, rough; lower ones ferrate: branches corymbd: calyx-leaves lax, foliaceous, somewhat wedge-form, rather acute, squarrous.

North America. *Aiton. kew.* 3 p. 2049.

serotinus. Leaves oblong-lanceolate, sessile, glabrous, rough on the margin; lower-ones ferrate: branches corymbd, glabrous; branchlets 1 flowered: calyx-scales lanceolate, spreading.

North America. *Willd.* 3 p. 2049. Flowers blue.

tardiflorus. Leaves sessile, lanceolate, tapering to the base, ferrate, glabrous: calyx lax, with lance-linear, nearly equal glabrous leaflets.

America. Flowers yellow, with a bluish-white ray.

juncus. Leaves lance-linear, sessile, glabrous; lowermost slightly ferrate; of the branchlets lanceolate: branches wandlik: calyx imbricate: stem nearly glabrous.

America. *Aiton. kew.* 3. p. 204. Flowers pale flesh-colour.

lanceolatus. Leaves linear-lanceolate, sessile, very entire, glabrous; lowermost lanceolate, slightly ferrate: stem branched, diffuse, nearly glabrous: calyx imbricate.

North America. *Willd.* 3 p. 2050. Flowers white.

dracunculoides. Leaves linear, pointed, very entire; lower-ones linear-lanceolate, slightly ferrate: branches corymbd: calyx imbricate: stem nearly glabrous.

North America. *Willd.* 3. p. 2050. Flowers white.

fragilis. Leaves linear, pointed, very entire; radical-ones oblong, ferrate: branches corymb-panicled: calyx imbricate, with appressed scales: stem nearly glabrous.

North America. *Willd.* 3. p. 2051. The 3 last much alike.

miser. Leaves lanceolate, sessile, slightly ferrate, glabrous: calyx imbricate, with acute leaflets; disk and ray of equal length: stem a little villous.

America. Ray short, white: disk pale yellow.

divergens. Leaves elliptic-lanceolate, ferrate, glabrous; those of the stem linear-lanceolate, elongated: branches spreading: calyx imbricate: stem pubescent.

North America. *Ait. kew.* 3. p. 205. Disk red: ray white.

- diffusus*. Leaves elliptic-lanceolate, serrate, proportionate : branches spreading: calyx imbricate : stem pubescent.
America. *Aiton. kew.* 3. p. 205. Ray white.
- pendulus*. Leaves elliptic-lanceolate, serrate; glabrous; those of the branchlets rather remote : branches much divaricate; pendulous : stem pubescent.
North America. *Ait. kew.* 3. p. 205. Ray white.

G. *Herbaceous: leaves pinnate.*

- aurantius*. Leaves pinnate, with the midrib simple; leaflets ovate; serrate.
Vera Cruz. *Banks. reliq. Houst.* 7. t. 18. Flowers orange.
- pinnatus*. Leaves pinnate, with the midrib winged; leaflets linear-wedge form, serrate at top.
New Spain. *Cavan. ic.* 3. t. 212. Flowers deep yellow.

1521. *SOLIDAGO*. *Receptacle* cellular, naked :
down simple: *florets* of the margin 5--10 : *calyx*
imbricate, closed. *Golden-rod.*

A. *Arborescent.*

- spuria*. Panicle corymbed: leaves oblong, denticulate.
St. Helen's *Forst. Comm. Gatt.* 9. p. 68.
Leaves obtuse, wrinkled or curled : flowers white.
- Leucadendron*. Cymes flat-topped : leaves oblong-obovate, crenate, nearly sessile.
St. Helens. *Forst. Comm. Gatt.* 9. p. 69..

B. *Herbaceous : racemes pointing one way : leaves triply nerved.*

- canadensis*. Stem villous : leaves lanceolate, serrate, rough : racemes panicled, recurved: ligules abbreviated.
Canada. *Pluk. alm. t.* 263. f. 1. Leaves mostly glabrous.
- procera*. Stem villous, erect: leaves lanceolate, serrate, rough, villous underneath: racemes spike-like, erect, nodding before flowering: ligules abbreviated.
North America. *Ait. kew.* 3. p. 211.
- serotina*. Stem erect, round, smooth : leaves linear-lanceolate, glabrous, rough and serrate on the margin : racemes panicled.
North America. *Ait. kew.* 3. p. 211. Peduncles pubescent.

- gigantea.* Stem erect, glabrous: leaves lanceolate, ferrate, rough on the margin: racemes paniced: peduncles hairy: ligules abbreviated.
North America. *Aiton. kew.* 3. p. 211.
- ciliaris.* Stem erect, glabrous: leaves lanceolate, glabrous, rough on the margin, slightly ferrate: racemes paniced: peduncles glabrous: bractes ciliate: ligules abbreviated.
Pennsylvania. *Willd.* 3. p. 2056. Stem angular.
- reflexa.* Stem erect, villous: leaves lanceolate, slightly ferrate, rough, reflected: branches paniced.
North America. *Ait. kew.* 3. p. 211. Panicles short.
- laterifolia.* Stem erect, a little hairy: leaves lanceolate, glabrous, rough on the margin; lower-ones slightly ferrate: racemes paniced; somewhat recurved.
North America. *Leaves* with often a tooth or two.

C. Racemes pointing one way: leaves veined.

- aspera.* Stem erect, round, hairy: leaves ovate, somewhat elliptic, very rough, wrinkled, ferrate. nerveless: racemes paniced.
North America. *Dill. Elth.* t. 305. f. 292.
- altissima.* Stem erect, hairy: leaves lanceolate, very rough, wrinkled; the lower-ones deeply ferrate: racemes paniced.
America. *Mart. cent.* t. 14. Leaves more or less villous.
- rugosa.* Stem erect, hairy: leaves lanceolate, very rough, wrinkled; lower-ones with appressed ferratures: racemes paniced; much spread.
North America. *Dill. Elth.* t. 308. f. 396.
- scabra.* Stem erect, hairy: leaves oblong, pointed, glabrous above, rough and wrinkled underneath.
Pennsylvania. *Willd.* 3. p. 2059. Leaves ferrate.
- nemorali.* Stem erect, downy: stem-leaves lanceolate, bristly, very entire; radical-ones somewhat wedge-form, ferrate: racemes paniced.
North America. *Aiton. kew.* 3. p. 214.
- patula.* Stem erect, glabrous: leaves elliptic, ferrate, glabrous; radical-ones oblong-spatulate: racemes paniced, spreading: peduncles pubescent.
Pennsylvania. *Willd.* 3. p. 2059.

- ulmifolia*. Stem erect glabrous: leaves elliptic, deeply ferrate, pointed, villous underneath; radical-ones obovate: racemes panicled: ligules abbreviated.
 Pennsylvania. *Willd. 3. p. 2060.* Peduncles villous.
- arguta*. Stem erect, glabrous: leaves glabrous, sharply and unequally ferrate; those of the stem elliptic; radical-ones ovate-oblong: racemes panicled: ligules elongated.
 North America. *Aiton. kew. 3. p. 213.*
- elliptica*. Stem erect, glabrous: leaves elliptic, smooth, ferrate: racemes panicled: ligules moderate.
 North America. *Aiton. kew. 3. p. 214.*
- juncea*. Stem erect, glabrous: leaves lanceolate, glabrous, rough on the margin; lower-ones ferrate: racemes panicled.
 North America. *Aiton. kew. 3. p. 213.*
- sempervirens*. Stem erect, glabrous: leaves linear-lanceolate, somewhat fleshy, smooth, very entire, rough on the margin: racemes panicled: peduncles hairy.
 New York. *Moris. sect. 7. t. 23. f. 15.* Stem red.
- odora*. Stem erect, pubescent: leaves linear-lanceolate, very entire, glabrous, rough on the margin: racemes panicled.
 North America. *Pluk. alm. tab. 116. f. 6.* Root odorous.

D. *Racemes erect.*

- bicolor*. Stem hairy: leaves elliptic, hairy; lower-ones ferrate: branches with small leaves: calyx-leaves obtuse.
 America. *Pluk. alm. t. 114. f. 3.* Ray white.
- petiolaris*. Stem erect, villous: leaves elliptic, roughish, petioled: ligules elongated.
 North America. *Ait. kew. 3. p. 216.*
- stricta*. Stem erect, glabrous: stem-leaves lanceolate, very entire, glabrous, rough on the margin; radical-ones ferrate: racemes panicled: peduncles glabrous.
 North America. *Ait. kew. 3. p. 216.*
- lanceolata*. Stem glabrous, much branched: leaves lance-linear, very entire, 3-nerved, glabrous: corymbs terminal: ligules as tall as the disk.
 America. Ray of the corol small.
- cæsia*. Stem smooth, erect: leaves lanceolate, glabrous: ligules moderate.
 America. *Dill. Elab. t. 307. f. 395.*

- bispida.* Stem erect, rough with bristles: leaves lanceolate, rough, very entire, radical-ones ferrate: ligules moderate.
 Pennsylvania. *Willd.* 3. p. 2063.
- levigata.* Stem erect, smooth: leaves lanceolate, very entire, fleshy, smooth every where: racemes paniced: peduncles scaly, villous: ligules elongated.
 North America. *Aiton. kew.* 3. p. 215.
- mexicana.* Stem oblique, glabrous: leaves lanceolate, somewhat fleshy, very entire, smooth every where: racemes paniced: peduncles scaly, glabrous: ligules long.
 America. *Dodart. aet.* 4. tab. 219.
- viminea.* Stem erect, somewhat pubescent: leaves linear-lanceolate, membranaceous, tapering to the base, glabrous. rough on the margin; slightly ferrate: ligules long.
 North America. *Aiton. kew.* 3. p. 215. Leaves not fleshy.
- flexicaulis.* Stem flexuous, glabrous, angular: leaves ovate, pointed, ferrate, glabrous: ligules moderate.
 Canada. *Pluk. alm.* t. 235. f. 3, 4.
- ambigua.* Stem somewhat flexuous, glabrous, angular, branched: leaves oblong-lanceolate, closely ferrate, a little hairy underneath: ligules long.
 — *Aiton. kew.* 3. p. 217.
- alpestris.* Stem erect, glabrous: leaves elliptic-lanceolate; lower-ones ferrate: racemes contracted, shorter than the leaves: ligules long.
 Alps. *Waldst. Kitaib. pl. rar. Hung.*
- * *Virgaurea* Stem a little flexuous, somewhat angular, pubescent at top: leaves elliptic-lanceolate, roughish, ferrate: ligules long.
 Woods. *Eng. Bot.* t. 301. Stem simple or branched.
- multiradiata.* Stem a little villous: leaves sessile, lanceolate, glabrous; lower-ones ferrate at top: racemes terminal: ligules long, numerous.
 Labrador. *Aiton. kew.* 3. p. 218. Ray numerous.
- minuta.* Stem quite simple, hairy: leaves lanceolate, acute, ferrate, glabrous: racemes terminal, simple: ligules long.
 Pyrenees. *Herm. parad.* t. 245, *Pluk. alm.* t. 235. f. 7, 8.
- rigida.* Stem hairy, rough: leaves ovate-oblong, roughish; those of the stem very entire; lowermost ferrate: flowering branches paniced: racemes compact: ligules long.
 Pennsylvania. *Herm. Prad. tab.* 248.

noveboracensis. Root-leaves ovate-oblong, petioled: stem nearly naked, branched, flat topped.
New York. Leaves very rough.

1522 MUTISIA. Receptacle naked: down feathery: calyx cylindrical, imbricate: florets of the disk 3 cleft.

A. Leaves pinnate.

Clematis. Leaves ending in a tendril; leaflets oblong, downy underneath.

Peru. Cavan. ic. 5. t. 492. Leaves brown underneath.

peduncularis Leaves ending in a tendril: leaflets alternate, oblong, acute, glabrous: florets of the ray oblong, acute at both ends.

Peru. Cavan. ic. 5. t. 491. Florets of the ray 8.

viciaefolia. Leaves ending in a tendril; leaflets lanceolate, glabrous; the lower-ones opposite: florets of the ray obovate.

Peru. Cavan. ic. 5. t. 490. Florets of the ray 8.

B. Leaves simple.

ilicifolia. Leaves ending in a tendril, heart-shaped, clasping, spinous-toothed.

Chili. Cavan. ic. 5. t. 493. Tendril simple.

runcinata. Leaves ending in a tendril, runcinate, decurrent, downy underneath.

South America. Cavan. ic. 5. tab. 498.

sinuata. Leaves ending in a tendril, linear, serrate-toothed, a little decurrent: calyx-scales spreading.

Chili. Cavan. ic. 5. tab. 499. Calyx-scales mucronate.

subspinosa. Leaves ending in a tendril, linear, toothed, clasping and arrow-shaped: stem winged, toothed: calyx-scales reflected.

Peru. Cavan. ic. 5. t. 495.

sagittata. Leaves ending in a tendril, lanceolate, very entire, downy underneath, arrow-shaped at the base: stem winged, toothed: calyx-scales reflected.

Chili. Cavan. ic. 5. t. 494.

decurrens. Leaves ending in a tendril, lanceolate, very entire, decurrent, glabrous.

Chili. Cavan. ic. 5. tab. 497.

inflexa. Leaves ending in a tendril, linear, sessile, involute at the margin: calyx-scales reflected.

Chili. Cavan. ic. 5. t. 496.

linearifolia. Leaves without tendril, linear, mucronate, appressed: stem erect.

Chili. *Cavan. ic. 5. tab. 500.*

1523. BRACHYGLOTTIS. *Receptacle* naked: down feathery; *calyx* cylindrical, simply, equal: *florets* of the disk 5-cleft.

repanda. Leaves ovate, repand-sinuate.

South Sea islands. *Forst. char. gen. p. 92.*

rotundifolia. Leaves roundish, very entire.

South Sea islands. *Forst. char. gen. p. 92.*

1524. CINERARIA. *Receptacle* naked: down simple: *calyx* simple, many-leafed, equal. *Flea-wort.*

A. *Flowers* without ray.

nivea. Leaves linear; downy: flowers mostly solitary, terminal: stem shrubby.

The Cape. *Thunb. prodr. 155. Doria.*

undulata. Root-leaves elliptic, petioled, undulate, glabrous: flowers solitary, terminal.

The Cape. *Thunb. prodr. 155. Doria.*

alata. Stem herbaceous: leaves obovate, decurrent: flowers corymbed.

The Cape. *Stem* erect, angular: *calyx* ovate.

perfoliata. Leaves ovate, clasping: peduncles long, 1-flowered.

The Cape. *Plant* somewhat fleshy, glaucous.

denticulata. Leaves lanceolate, glabrous, denticulate: flowers panicled.

The Cape. *Leaves* nearly all radical, long.

ferrata. Leaves obovate-oblong, ferrate, downy underneath: stem branched above: branches 1-flowered.

The Cape. *Thunb. prodr. 155. Doria.*

elongata. Leaves somewhat heart-shaped, eroded: peduncles very long, with subulate scales.

The Cape. *Leaves* unequally crenate, rather obtuse.

rosea. Stem herbaceous, decumbent: leaves lyrate, toothed: flowers panicled

The Cape. *Thunb. prodr. 156. Leaves* rough.

sonchifolia. Leaves clasping, sinuate, differently formed.

The Cape. *Breyn. prodr. 3. t. 21. f. 1.*

incisa. Leaves oblong, glabrous; lower-ones cut-toothed: upper-ones very entire: flowers terminal.
The Cape. *Thunb. prodr.* 156. Doria.

pinnatifida. Leaves pinnatifid, toothed, glabrous petioled: flower solitary, terminal.
The Cape. *Thunb. prodr.* 156. Leaflets ovate toothed.

bipinnata. Leaves doubly pinnate, linear, glabrous: flowers panicled.
The Cape. *Thunb. prodr.* 156. Doria.

B. *Flowers radiate.*

filifolia. Leaves linear, glabrous: flowers panicled.
The Cape. *Thunb. prodr.* 154.

cacalioides. Leaves cylindrical, oblong, fleshy: panicle terminal, long, few-flowered: peduncles alternate.
The Cape. *Linn. suppl.* 375. *Thunb. prodr.* 154.

lineata. Leaves lanceolate, downy underneath, ferrate at top, toothed at the base.
The Cape. *Panicle* decomposed, stiff, hoary.

americana. Shrubby: panicles axillary: leaves alternate, petioled, broad lanceolate, ferrate, glabrous above, hoary underneath.
South America. *Plant* covered with a fine woolly skin.

geifolia. Peduncles branched: leaves kidney-form, narrowed, somewhat lobed, pubescent: petioles appendaged above.
The Cape. *Comm. hort.* 2. t. 73. *Seba mus.* 1. t. 22. f. 2.

aurita. Flowers corymbed: leaves heart-shaped, somewhat angular, downy underneath: petioles 2-lobed at the base.
Canaries. *Andrews repos.* t. 24. Leaves purple beneath.

cruenta. Flowers corymbed: leaves elliptic-oblong, ferrate, downy underneath: petioles somewhat 2-lobed at the base.
Canaries. *Curt. Magaz.* t. 406. Leaves purplish beneath.

cymbalariifolia. Leaves lyrate, the terminal lobe kidney-form and denticulate; upper-stem-leaves clasping, lobed, very entire.
The Cape. *Amæn. acad.* 6. *Afr.* 81.

lobata. Flowers somewhat corymbed: leaves roundish, many-lobed, glabrous: petioles lobed at the base: calyx somewhat calyced.
The Cape. *Aiton. kew.* 3. p. 220.

multiflora. Flowers cymed: leaves heart-ovate, downy underneath: petioles lobed on one side.
Canaries. *L'Herit. fert. Angl.* 26.

Tussilaginis. Flowers loosely panicled: leaves kidney-form and hearted, many angled, downy underneath: petioles lobed at the base.

Teneriffe. *L'Herit. fert. Angl.* 26.

præcox. Flowers corymbed: leaves hearted, lobe-toothed, pointed glabrous: petioles naked: stem fleshy.

Mexico. *Cavan. ic.* 3. tab. 244. Flowers yellow.

malvæfolia Flowers cymed: leaves heart-shaped, angular, somewhat downy beneath: petioles simple.

Canaries. *Aiton. kew.* 3. p. 220.

glabra. Flowers corymbed: calyx cylindrical: leaves oblong, acute, somewhat denticulate, nerveless, glabrous, both sides, somewhat succulent: stem shrubby.

Jamaica. *Swartz. prodr.* 113.

discolor. Flowers corymbed: leaves oblong-lanceolate, pointed, somewhat denticulate, glabrous, snowy-downy underneath: stem shrubby.

Jamaica. *Swartz. prodr.* 114.

coronata. Leaves obovate, crenate, glabrous: flowers terminal: stem shrubby.

The Cape. *Thunb. prodr.* 154.

sibirica. Raceme simple; leaves heart-shaped, obtuse, denticulate, smooth: stem quite simple, 1-leaved.

Siberia, Hungary. *Waldst. Kitaib. Hung.* 1. tab. 16.

glauca. Raceme simple: leaves spatulate-heartd, very entire, smooth: stem quite simple.

Siberia. *Gmel. Sib.* 2. t. 74. Leaves glaucous.

* *palustris.* Flowers corymbed: leaves broad lanceolate, toothed or sinuate: stem villous, leafy.

Marshes. *Engl. Bot.* t. 151. *Flor. Dan.* t. 573.

campestris. Flowers umbelled: stem simple: leaves downy; radical-ones ovate, slightly crenate; those of the stem lanceolate, very entire.

South of Europe. *Jacq. Austr.* tab. 180.

aurantiaca. Flowers about 3 together, terminal: stem simple: root-leaves ovate, obscurely crenate: stem-leaves lanceolate, very entire: calyx sphacelate.

South of Europe. *Allion. Ped.* n. 738. t. 38. f. 2.

* *integrifolia.* Flowers umbelled: stem simple: lower-leaves spatulate, toothed: upper-ones lanceolate, very entire at the base; uppermost quite entire.

Mountains. *Eng. Bot.* t. 152. *Jacq. Austr.* t. 180.

- longifolia.* Flowers in umbelled corymbs: stem simple: leaves slightly toothed; radical-ones spatulate; those of the stem oblong-lanceolate.
Alps. *Jacq. Austr. t. 181. Barr. ic. 266.*
- crispa.* Flowers in umbelled corymbs: stem simple: leaves toothed; lower-ones spatulate and hearted, the petioles winged, denticulate; upper-ones sessile, lanceolate.
Austria. *Jacq. Austr. tab. 178. Calyx villous.*
- tordifolia.* Panicle few-flowered: stem simple: all the leaves petioled, hearted, doubly toothed; petioles slightly toothed at the base.
Alps. *Jacq. Austr. t. 176. Baub. prodr. t. 69.*
- alpina.* Flowers corymbed: leaves pinnate; terminal leaflets very large, heart-shaped, cut-toothed; lateral-ones wedge-shaped, toothed at top.
Alps. *Jacq. Austr. t. 177. Calyx calyced.*
- aurea.* Flowers corymbed: leaves lanceolate, ferrate, downy underneath.
Siberia. *Leaves* equally and distinctly ferrate.
- japonica.* Leaves sword-shaped, toothed, downy: flowers terminal.
Japan. *Thunb. jap. 317. Leaves acute.*
- maritima.* Flowers paniced: calyx downy: leaves pinnatifid, with obtuse somewhat 3-lobed segments, downy underneath: stem shrubby.
European Shores. *Calyx* thickly downy.
- bicolor.* Flowers corymbed: calyx hoary-pubescent: leaves oblong, pinnatifid at the base, with slightly toothed segments, shining and glabrous above, downy underneath: stem shrubby.
— *Willd. 3. p. 2085. Calyx* not downy.
- canadensis.* Flowers paniced: leaves somewhat villous, pinnatifid, with sinuate segments: stem herbaceous.
Canada. *Florets* of the ray spreading.
- aspera.* Leaves linear, pinnate, toothed, downy underneath: flowers paniced.
The Cape. *Thunb. prodr. 153.*
- capillacea.* Leaves pinnate, with capillary entire leaflets.
The Cape. *Leaves* glabrous: *flowers* solitary.

- minuta*. Peduncles 1-flowered: root-leaves glabrous, wedge-form, about 5-toothed; stem-leaves hairy, pinnate, linear-filiform: stem hairy.
Spain. *Cavan. ic.* 1. t. 33. f. 3. Flowers solitary, white.
- linifolia*. Peduncles 1-flowered, axillary: leaves linear-subulate, glabrous: stem shrubby.
The Cape. *Jacq. hort. Schænb.* 3. tab. 308.
- humifusa*. Peduncles 1-flowered: leaves kidney form, somewhat angular: petioles auricled or naked at top.
The Cape. *Ait. kew.* 3. p. 219. Flowers yellow.
- viscosa*. Peduncles 1-flowered: leaves pinnatifid-lobed, acute, viscid, a little fleshy.
The Cape. *Jacq. fragm. bot.* 12. tab. 7. f. 2.
- purpurata*. Stem about 2-flowered: leaves obovate, a little downy.
The Cape. Stem downy, ending in 2 very long petioles.
- scapiflora*. Peduncles very long, 1-flowered: leaves ovate, glabrous, doubly toothed.
The Cape. *L'Herit. fert. Angl.* 25.
- lanata*. Peduncles 1-flowered: leaves heart-roundish, 7-angled, woolly underneath.
Canaries. *Curt. Magaz. t.* 53. Flowers large, purple.
- amelloides*. Peduncles 1-flowered: leaves opposite, ovate, naked: stem somewhat shrubby.
The Cape. *Curt. Magaz. t.* 249. Flowers blue.

1525. *INULA*. *Receptacle* naked: *down* simple: *calyx* imbricate: *florets* of the margin very numerous and linear: *antheræ* with 2 bristles at the base. *Flea-bane*.

- * *Helenium*. Leaves clasping, ovate, wrinkled, downy underneath: calyx-scales ovate. *Elecampane*.
Meadows. *Woodv. t.* 108. *Flor. Dan. t.* 728.
- odora*. Leaves clasping, toothed, very hairy; radical-ones ovate; those of the stem lanceolate: stem few-flowered.
Italy, France. *Moris. sect. 7. t.* 21. f. 6. Root odorous.
- Oculus christi*. Leaves clasping, oblong, entire, hairy: stem hairy, corymbed.
Austria. *Jacq. Austr. t.* 223. *Moris. 3. 7. t.* 19. f. 1.

- britannica*. Leaves clasping, lanceolate, ferrate at the base, hairy underneath: stem corymbed, villous: lateral branches longer than the top.
Germany, Siberia. *Flor. Dan. t. 413. Moris. 7. t. 19. f. 8.*
- * *dysenterica*. Leaves clasping, arrow-shaped at the base, oblong, downy underneath, repand-toothed: stem downy, paniced: lateral branches longer than the top: calyx-scales setaceous, hairy.
Ditches. *Engl. Bot. t. 1115. Curt. Lond. fasc. 3. t. 56.*
- undulata*. Leaves clasping, heart lanceolate, undulate.
Egypt. *Leaves* hoary underneath.
- indica*. Leaves clasping, heart-lanceolate, nearly glabrous, ferrate: stem corymbed, glabrous: lateral branches longer than the top, spreading: peduncles 1 flowered, filiform.
East Indies. *Pluk. alm. t. 149. f. 4. Burm. Zeyl. t. 55. f. 2.*
- * *pulicaria*. Leaves clasping, oblong, undulate, hairy: stem erect, paniced, hairy: flowers hemispherical, with a very short ray.
Moist heaths. *Engl. Bot. t. 1196. Curt. Lond. fasc. 3 t. 57.*
- arabica*. Leaves oblong, sessile: peduncles filiform: calyx cylindrical.
Arabia, *Pluk alm. t. 149. f. 4. Leaves* not undulate.
- spiræifolia*. Leaves sessile, ovate-oblong, naked, reticulate, crowded, ferrulate: flowers terminal, nearly sessile.
Italy. *Flowers* scarcely peduncled.
- japonica*. Leaves sessile, somewhat clasping, oblong-lanceolate, ferrate, villous: stem paniced, villous: peduncles axillary, 1-flowered
Japan. *Bank. ic. Kämpf. tab. 30.*
- squarrosa*. Leaves ovate, rigid, sessile, ferrulate, rough, reticulate with veins: calyx-scales ovate, reflected.
Italy, Montpellier. *Pluk. alm t. 16. f. 1.*
- viscosa*. Leaves sessile, reflected at the base, lanceolate, ferrate: stem wand-like, viscid hairy: peduncles axillary, 1-flowered, leafy.
France, Italy. *Jacq. hort. t. 165.*
- salicina*. Leaves lanceolate, recurved, ferrate, rough on the margin: branches angular: lower-flowers taller.
Europe. *Gmel. Sib. 2. t. 77. Pluk. alm. t. 16. f. 1.*
Stem glabrous, grooved above: *leaves* glabrous.

- grandiflora*. Leaves sessile, oblong, sharply and unequally ferrate; the ferratures glandular: stem villous, 1-flowered: calyx-scales linear-subulate, villous
Siberia. Willd. 3. p. 2096. Flowers large, yellow.
- glandulosa*. Leaves sessile, oblong, obscurely ferrate; the ferratures glandular: stem hairy 1-flowered: calyx-scales lanceolate, villous.
Georgia Willd. 3. p. 2097. Calyx with black hairs.
- Bubonium*. Leaves sessile, oblong, cartilaginous denticulate, rough, rigid: stem corymbed: calyx-scales ovate, obtuse, spreading every way.
Austria, Carniola. Jacq. *Aust. arp* t. 19. Scop. *Corn. t.* 58.
- hirta*. Leaves sessile, lanceolate, obscurely ferrate, rigid, hairy: stem somewhat divided, villous, 1 or 2-flowered: calyx-scales lanceolate.
South of Europe. Jacq. *Austr. t.* 358. Scop. *Carn. t.* 58.
- suaveolens*. Leaves elliptic, tapering to the base, somewhat petioled, hairy; lower-ones toothed: stem many flowered.
South of Europe. Jacq. *hort.* 3. tab. 51.
- Vaillantii*. Leaves sessile, oblong-lanceolate, ferrate, downy underneath: stem paniced: flowers peduncled, about 4 together, somewhat umbelled, terminal.
Alps. Hall. *Helv. n.* 73. tab. 2. After.
- mariana*. Leaves sessile, oblong-lanceolate, ferrate, tapering to the base, obtuse, mucronate with a gland, very entire; lower-ones petioled, ferrate: stem villous: peduncles axillary, filiform, hairy-viscid.
America. Mill. *fig* t. 56 Pluk. *mant. t.* 340. f. 1.
- dubia*. Leaves sessile, oblong, ciliate: stem 1-flowered.
Japan. Thunb. *Jap* 319. Plant villous.
- orientalis*. Leaves sessile, lanceolate, very entire, rough, pubescent underneath: flowers corymbed, crowded.
America. Willd. 3 p. 2100 Calyx scales obtuse.
- germanica*. Leaves sessile, oblong, acute, very entire, rough: stem branched above: flowers corymbed.
Germany, Siberia. Gmel. *Sib.* 2. t. 78 f. 1. Moris. 7. t. 19. f. 26
- ensifolia*. Leaves sessile, linear, pointed, nerved, glabrous, scattered: stem 1 or 2 flowered.
Austria, Germany. Jacq. *Austr.* tab. 162.

**crithmoides* Leaves linear, fleshy, tricuspidate at top.
Sea coast. *Eng. Bot. t. 68.*

provincialis Leaves somewhat ferrate, downy underneath: radical-ones petioled, ovate: stem erect, 1-flowered.
South of France. *Root-leaves* rather obtuse.

montana. Leaves lanceolate, hairy, very entire: stem 1-flowered: calyx short, imbricate.
Spain, France, Germany. *Plant* white villous.

astuans. Leaves spatulate, downy underneath,
America. *Plum. ic. 41. fig. 2.*

bifrons. Leaves ovate oblong, decurrent, toothed, very entire at top: flowers corymbed.
Italy, Lyrenees. *Garid. Aix. t. 23. Bocc. mus. 1. t. 21.*

cærulea. Leaves decurrent, obovate: flowers sessile, terminal.
The Cape. *Ray* blue: *receptacle* cellular.

aromatica. Leaves linear, very entire, downy, scattered, stem shrubby.
The Cape. *Pluk. alm. tab. 326. f. 2.*

laturejoides. Leaves sessile, opposite, linear-lanceolate, very entire, dotted underneath, ciliate with bristles at the base: peduncles long, 1-flowered: stem shrubby.
Vera Cruz. *Banks reliq. Houyt p. 8. t. 19. After.*

pinifolia. Leaves subulate-linear, 3-sided, much crowded: stem shrubby.
The Cape. *Moris. f. 7. t. 18. f. 31. Breyn. cent. t. 64.*

fatida. Leaves lance-linear, very entire: corymbs branched: rays of the flowers very short.
Malta. *Bocc. Sic. 26. tab. 13. Conyza melitensis.*

1526. RHANTERIUM. *Receptacle* chaffy: *down* consisting of 4 or 6 bristles, thickish and feathery at top: *calyx* cylindrical: *seeds* of the margin naked and without down.

suaveolens. Rhanterium.

Barbary. *Desfont. Atl. 2. p. 291. tab. 240.*

Shrub with downy branchlets: *leaves* lanceolate, ferrate, somewhat downy: *flowers* terminal, solitary: *calyx* yellowish, with reflected scales.

1527. ARNICA. *Receptacle* naked: *down*: simple: *calyx* equal: *florets* of the margin generally with 5 filaments destitute of antheræ.

- montana*. Leaves ovate, entire; those of the stem in pairs, opposite.
Alps. *Woodv. t. 4. Blackw. t. 595 Flor. Dan. t. 63.*
- pilose'loides*. Leaves elliptic, downy underneath, emarginate at the base :
scape 1-flowered: calyx as long as the ray.
The Cape. *Vabl. symb. 3. p. 99.*
- birsuta*. Leaves elliptic, woolly underneath, entire at the base: scape
1-flowered: calyx shorter than the ray.
Arabia felix. *Vabl. symb. 3. p. 99.*
- operina*. Shrubby; leaves lanceolate, callous-crenate, downy under-
neath: peduncles 1-flowered, solitary, terminal, scaly.
New Zealand. *Forst prodr. 299.*
- lanata*. Leaves heart-ovate, obtuse, entire, woolly.
The Cape. *Thunb. prodr. 154.*
- grandis*. Leaves ovate, nerved, woolly; stem shrubby, branched.
The Cape. *Thunb. prodr. 154.*
- cordata*. Leaves hearted, ovate, downy underneath: flower terminal.
The Cape. *Thunb. prodr. 154.*
- ciliata*. Leaves clasping, ovate, toothed, ciliate, glabrous: stem
simple, 1-flowered.
Japan. *Thunb. Jap 318.* Leaves villous underneath.
- scorpioides*. Leaves with pointed teeth: radical-ones petioled, elliptic-
round sh; stem leaves alternate oblong.
Austria. *Jacq. Austr. t. 349.* All the seeds downy.
- Doronicum*. Leaves remotely toothed, hairy; radical-ones petioled,
oblong, narrowed at the base; those of the stem alter-
nate, oblong-lanceolate.
Alps. *Jacq. Austr. t. 92. Allion. Ped. t. 17. f. 1, 2.*
- glacialis*. Leaves slightly toothed, somewhat hairy: radical-ones pe-
tioled, oblong, rounded at the base; those of the stem
alternate, oblong-lanceolate.
Alps. *Jacq. ic. rar. 3. tab. 586.*
- Bellidias-
trum*. Scape 1-flowered, naked: leaves petioled, obovate, repand.
Alps. *Jacq. Austr. t. 400. Doronicum.*
- rotundifolia*. Scape 1-flowered, 1-leaved: leaves spatulate-rounded, serrate.
Barbary. *Desfont. Atl. 2. t. 235. f. 1. Doronicum.*
- maritima*. Leaves lanceolate; lower-ones serrate: stem leafy, many-
flowered.
Kamtschatka. Stem thick, shrubby.

- inuloides*. Leaves linear, crowded, denticulate, hoary underneath: stem shrubby.
The Cape. *Vahl. symb.* 1. p. 91. Branches hoary.
- tabularis*. Leaves ovate, denticulate, downy underneath: stem branched.
Table mountain at the Cape. *Burm. Afr. t.* 55.
- erocca*. Leaves petioled, ovate, denticulate, glabrous: scape herbaceous, 1-flowered.
The Cape. *Burm. Afr. t.* 56. f. 2. *Pluk. mant. t.* 343.
- crenata*. Leaves obovate, crenate, glabrous: scape 1-flowered.
The Cape. *Thunb. prodr.* 154.
- japonica*. Leaves cut-palmate, toothed: flowers terminal, 2 or 3 together.
Japan. Stem hoary, striate, glabrous.
- palmata*. Leaves cut-palmate, toothed: flowers paniced.
Japan. *Thunb. Jap.* 319.
- sinuata*. Leaves oblong, sinuate, downy underneath: scapes 1-flowered, pubescent.
The Cape. *Thunb. prodr.* 154.
- serrata*. Leaves linear, sinuate-pinnatifid, downy underneath: scapes 1-flowered, pubescent.
The Cape. *Thunb. prodr.* 154.
- Gerb-ia*. Leaves pinnatifid, downy underneath: scapes 1-flowered, woolly.
The Cape. *Burm. Afr. t.* 56 f. 1: *Pluk. alm. t.* 313. f. 5.
- coronopifolia*. Leaves pinnate, with linear leaflets.
The Cape. Probably a variety of the last.

1528. DORONICUM. *Receptacle* naked: down simple: *calyx scales* in a double row, equal, longer than the disk: *seeds* of the ray naked and without down. *Leopard's bane.*

- Pardalichanthes*. Leaves denticulate; upper-most roundish hearted; middle-ones spatulate hearted; lower and radical-ones heart-shaped, petioled.
Germany, *Jacq. Aust.* 350. *Mill. fig. t.* 128.
- Scirpioides*. Leaves remotely denticulate; upper ones oblong, clasping; lower-ones ovate, petioled, the petioles winged and auricled; radical-ones ovate, somewhat hearted, petioled.
Germany. Stem hairy at the base only.

- **austriacum* Leaves denticulate; upper-most lanceolate, clasping; lower-ones spatulate-ovate: radical-ones heart-shaped, petioled. Mountainous pastures. *Engl. Bot. t. 630. D. Pardalianches.*
- altaicum.* Leaves toothed, obovate, clasping; radical-ones obovate spatulate, tapering to a petiole: stem simple, 1-flowered. Altaic Alps. *Pall. Aët. Petrop. 1779. 2. tab. 16.*
- plantagin-
neum.* Leaves ovate, acute, slightly toothed: branches alternate. Spain, Portugal. *Stem* branched.
- glutinifum.* Leaves ovate, ferrate, sessile: stem shrubby. Mexico. *Cavan. ic. 2. t. 168. Calyx* imbricate.

1529. TETRAGONOTHECA. *Receptacle* chaffy: down 0: *calyx* 1-leafed, 4-sided, 4-parted.

- beliantho-
ides.* Tetragonotheca. 47
Virginia, Carolina, *Dill. Elth. t. 283. f. 365.*
Stem rough: *leaves* opposite, obovate spatulate, acute, denticulate, clasping, rough: *peduncles* 1-flowered.

1530. XIMENESIA. *Receptacle* chaffy: down 0: seeds of the margin naked, emarginate; of the centre winged on the margin: *calyx* many-leaved, nearly equal.

- encelioides.* Ximenesia.
Mexico. *Cavan. ic. 2. p. 60. tab. 178.*
Leaves opposite, ovate, petioled, ferrate, hoary underneath: *petioles* auricled and toothed at the base: *flowers* peduncled.

1531. PERDICIIUM. *Receptacle* naked: down simple: *florets* 2-lipped.

- Taraxaci.* Scape 1-flowered: florets female and hermaphrodite: leaves runcinate, glabrous.
The Cape. *Vahl. aët. Haf. 1. p. 9. tab. 1.*

- tomentosum.* Scape 1-flowered: leaves lyrate, downy underneath: *calyx* imbricate.
Japan. *Vahl. aët. Haf. 1. t. 2. Flowers* all hermaphrodite.

- purpureus.* Stem nearly naked, villous, 1-flowered: leaves pinnatifid, glabrous, with oblong toothed segments.
Magellan's straits. *Vahl. aët. Haf. 1. p. 9. tab. 3.*

- Magellani-
cum.* Stem nearly naked, pubescent, 1-flowered: leaves pinnatifid, with oblong very entire ciliate segments.
Magellan's straits. *Vahl. aët. Haf. 1. p. 10. tab. 4.*

- nervosum*. Leaves simple, downy underneath, nerved.
The Cape. *Thunb. prodr.* 160.
- chilense*. Stem shrubby, 1-flowered: leaves linear lanceolate, serrate at top, petioled
Chili. *Willd.* 3. p. 2118. Petioles longer than the leaves.
- lactucoides*. Stem simple, many-leaved, 1-flowered: leaves lanceolate, very entire.
Magellan's straits. *Vabl. act. Haff.* 1. p. 11. tab. 5.
- squarrosum*. Stem many-flowered: leaves pinnatifid, with bristly-awned teeth on the segments.
Monteo Video. *Vabl. act. Haff.* 1. p. 11. tab. 6.
- brasiliense*. Stem herbaceous, many-flowered: leaves lanceolate, slightly toothed
Brasil. *Root leaves* pubescent, viscid, repand-toothed.
- laevigatum*. Stem somewhat shrubby: leaves lanceolate, very entire, petioled, ciliate: peduncles mostly in pairs, terminal.
Porto bello. *Bergm. act. Holm.* 1772. p. 229. tab. 7.
- radiale*. Stem shrubby: leaves lance-ovate, toothed: flowers somewhat paniced.
Jamaica. *Brown. Jam. t.* 33. f. 1. *Vabl. act. Haff.* 1. p. 13.
- recurvatum*. Stem shrubby: leaves linear-lanceolate, spinulous-ciliate: branches 1-flowered.
Magellan's straits. *Vabl. act. Haff.* 1. p. 13. tab. 7.
1532. HELENIUM. *Receptacle* naked, except the calycine chaff of the margin: *down* 5-awned: *calyx* 1-leaved, many-parted: *florets* of the margin half 3-cleft.
- autumnale*. Leaves ferrate, quite glabrous.
America. *Corn. Canad. t.* 63. *Moris. sect.* 6. t. 6. f. 74.
- pubescens*. Leaves ferrate, pubescent.
North America. *Aiton. kew.* 3. p. 227.
- quadridentatum*. Leaves glabrous; lower-ones pinnatifid; upper-ones very entire: *florets* of the centre 4-toothed.
Louisiana. *La Billard. Act. Par.* 1. p. 22. tab. 4.

1533. BELLIS. *Receptacle* naked; conic: *down* 0: *calyx* hemispherical, consisting of a single row of equal scales: *seeds* obovate. *Daisy.*

- * *perennis*. Scape naked, 1-flowered: leaves obovate, crenate, veined.
Pastures. *Engl. bot. t. 424. Curt. Lond. fasc. 1. t. 62.*
- syvestris*. Scape naked, 1-flowered: leaves obovate, crenate, 3-nerved.
Italy. *Cyrill. pl. rar. fasc. 2. p. 12. tab. 4.*
- annua*. Stem somewhat leafy.
France, Spain, Sicily. *Bocc. Mus. 2. tab. 35.*

1534. **BELLIUM**. *Receptacle* naked: seeds conic, crowned with an 8-leaved chaff and awned down: calyx a single row of equal scales.

- bellidioides*. Scapes naked, filiform.
Italy. *Triumph obs. t. 82. Bocc. Mus. 1. 107.*
- minutum*. Stem leafy, capillary.
Levant. *Schreb. nov. Afr. App. 1. t. 5. f. 2. Pestis.*
1535. **GEORGINA**. *Receptacle* chaffy: down 0: calyx double; the outer many-leaved; inner 1-leaved, 8-parted.
- purpurea*. Midrib of the leaves winged; leaflets obovate, pointed, serrate, shining glabrous underneath: outer-calyx reflected.
Mexico. *Cavan. ic. 1. tab. 80. Dahlia.*
- rosea*. Midrib of the leaves naked: leaflets ovate, rather obtuse, obtusely serrate, glabrous: outer-calyx spreading.
Mexico. *Cavan. ic. 3. tab. 265. Dahlia.*
- coccinea*. Midrib of the leaves naked: leaflets ovate, pointed, serrate, roughish underneath: outer calyx spreading.
Mexico. *Cavan. ic. 3. t. 266. Dahlia.*

1536. **SCHLECHTENDALIA**. *Receptacle* chaffy: seeds crowned with 5 erect awns: calyx double; the outer many-leaved, bristle-like; inner many-leaved, equal: florets of the centre 6 or 8 cleft.

- glandulosa*. Schlechtendalia.
Mexico, *Cavan. ic. 1. tab. 89. Willdenowa.*
Stem erect: leaves unevenly pinnate: leaflets oblong, unequally serrate, with yellow transparent immersed glands towards the margin: peduncles axillary, 1-flowered: flowers scarlet.

1537. **BOEBERA**. *Receptacle* naked: down simple: calyx double; the outer many-leaved: inner 8-leaved.

chrysanthe- Boebera.

moides.

Carolina, Mexico. *Cavan. demorft bot. p. 202.* *Dysodia.*

Plant erect, branched: leaves pinnate, with linear pinnatifid-toothed leaflets: peduncles alternate, 1 flower: flowers yellow.

1538. TAGETES. Receptacle naked: seeds crowned with 5 erect awns: calyx simple, 1-leaved, 5-toothed, tubular: florets of the ray 5, permanent.

lucida.

Leaves simple, lanceolate, very finely ferrate, ciliate at the base.

Mexico. *Cavan. ic. 3. t. 264* Leaves shining.

patula.

Leaves pinnate, with lanceolate ferrate and ciliate leaflets: peduncles 1-flowered, thickened at top: calyx smooth: stem spreading. *French marygold.*

Mexico. *Curt. Magaz. t. 150. knorr. del. 1. t. S. 7. 8.*

erecta.

Leaves pinnate, with lanceolate ferrate and ciliate leaflets: peduncles 1-flowered, much thickened at top: calyx angular: stem erect. *Africa marygold.*

Mexico. *Knorr. del. 1. t. S. 6. Col. ecph. 2 tab. 46.*

elongata.

Leaves pinnate, leaflets ferrate at top; those of the upper-ones linear, of the lower-ones wedge-form: peduncles 1-flowered, long, a little thickened at top.

America. *Willd. 3 p. 2127.*

minuta.

Leaves pinnate, with lanceolate ferrate leaflets; the terminal ones somewhat decurrent: peduncles many-flowered, scaly: flowers contracted.

Chili. *Dill. Elsb. tab 280. fig. 362.* Leaves dotted.

caecosana.

Leaves pinnate, leaflets lanceolate, ferrate at top: stem corymbed, erect. peduncles long, 1-flowered, erect: calyx cylindrical.

Canaries. *Willd. 3. p. 2128.* Uppermost leaflets entire.

renuifolia.

Leaves pinnate, with linear ferrate leaflets; the lower serratures elongated: stem paniced: peduncles alternate, 1-flowered: calyx clavate.

Peru. *Cavan. ic. 2. p. 169.*

micrantha.

Leaves pinnate; leaflets filiform-subulate, very entire: stem branched, diffuse: peduncles 1-flowered, solitary.

New Spain, *Cavan. ic. 4. ta'. 325.* Calyx cylindrical..

1539. *HETEROSPERMUM*. *Receptacle* naked : seeds of the margin compressed, with a membranaceous edge; inner-ones oblong 2-awned : *calyx* double; outer-one 4-parted ; inner-one many-leaved.

pinnatum. Stem smooth : leaves pinnate; leaflets linear-subulate, entire.
New Spain. *Cavan. ic. 3. t. 267*. Leaves opposite.

ovatum. Stem villous : leaves ovate, serrate at top.
Peru. *Cavan. demonstr. bot. 204*.

1540. *SCHKUHRIA*. *Receptacle* naked: seeds crowned with 5-leaved chaff: *calyx* 5-leaved: *florets* of the margin solitary.

abrotanoides Schkuhria.

Mexico. *Lamarck. diar. nat. hist. par. 2. t. 31*. *Pectis*.
Stem erect, branched : leaves pinnate, with filiform entire leaflets : peduncles filiform, 1 flowered, terminal or axillary.

1541. *PECTIS*. *Receptacle* naked: seeds crowned with 3 or 5 awns: *calyx* 5-leaved : *florets* of the ray 5.

humifusa. Leaves ovate, dotted underneath, ciliate each side at the base: stem procumbent: flowers peduncled.
Guadelope. *Plum. ic. t. 95. f. 2*. *Jacobæa*.

prostrata. Leaves oblong, dotted underneath, ciliate each side at the base: stems procumbent: flower terminal, sessile.
New Spain. *Cavan. ic. 4. t. 324*.

ciliaris. Leaves linear, clasping, ciliate at the base, tapering to the top.
Hispaniola. *Plum. ic. 151. f. 2*. Seeds 1-awned.

linifolia. Leaves linear, sessile, acute, ciliate at the base.
Jamaica. *Sloan. Jam. 1. t. 149. f. 3*. *Hieracium*.

punctata. Leaves linear, tapering to both ends, dotted underneath.
Hispaniola. *Jacq. Amer. t. 128. pi. t. 196*.

1542. *LEYSERA*. *Receptacle* naked on the disk, chaffy on the margin: seeds with a chaffy crown, those of the disk with a feathery down also: *calyx* scarious.

ciliata. Leaves filiform-subulate, ciliate: calyx-scales lanceolate.
The Cape. *Thunb. prodr. 160*.

gnaphalodes. Leaves linear subulate, ciliate and rough: calyx-scales lanceolate.

The Cape. *Herm. Lu. db. t. 71. B. syn. prodr. t. 14. f. 3.*

Leaves scattered: peduncles terminal, solitary, purple.

Callicornia. Leaves linear-filiform, rough: calyx-scales acute.

The Cape. *Pluk. phyt. t. 340. f. 4. Callicornia.*

incana. Leaves linear, downy: calyx scales lanceolate, acute.

The Cape. *Thunb. prodr. 160.*

arctotoides. Leaves linear, entire and toothed, downy underneath.

The Cape. *Thunb. prodr. 160.*

squarrosa. Leaves filiform, downy: calyx-scales membranaceous, reflected.

The Cape. *Pluk. alm. t. 352. f. 3. Iacea.*

Pilosella. Leaves elliptic-lanceolate, rough, hairy: calyx-scales acute: stem herbaceous.

The Cape. *Thunb. prodr. 160.*

ovata. Leaves ovate, hairy: calyx-scales acute.

The Cape. *Thunb. prodr. 160.*

picta. Leaves obovate, obtuse, downy: calyx-scales striate, coloured.

The Cape. *Thunb. prodr. 160.*

polifolia. Leaves ovate, ferrate, downy underneath: calyx-scales acute: stem shrubby.

The Cape. *Thunb. prodr. 161.*

1543. ROSENIA. Receptacle chaffy: down capillary and chaffy: calyx imbricate, scarious.

glandulosa. Rosenia.

The Cape. *Thunb. prodr. 161. Nov. gen. 12 p. 161.*

Stem glabrous, flexuous, much branched: leaves sessile, ovate, obtuse, entire, glandular on the edge, downy: flowers solitary.

1544. RELHANIA. Receptacle chaffy: seeds crowned with a short cylindrical membrane: calyx imbricate, scarious: florets of the ray numerous.

A. Flowers clustered.

squarrosa. Leaves oblong, pointed, nerveless, recurved at top.

The Cape. *Amæn. acad. 4 p. 329. Sp. pl. Athanasia.*

genitifolia. Leaves lanceolate, pointed, 1 nerved, somewhat imbricate.

The Cape. Stem branched: leaves sessile, crowded.

- microphylla* Leaves linear, nerveless, much crowded: flowers pedicelled.
The Cape. *L'Herit. fert.* 22.
- passerinoïdes* Leaves linear, nerveless: flowers nearly sessile.
The Cape. *L'Herit. fert. Angl.* 23. Stems erect.
- viscosa.* Leaves linear, 3-sided, a little fleshy, viscid.
The Cape. *L'Herit. fert.* 23. Leaves appressed, glandular.
- B. *Flowers solitary.*
- laxa.* Leaves linear, villous, remote: flowers on long peduncles:
stem erect.
The Cape. *L'Herit. fert. Angl.* 23.
- pedunculata.* Leaves villous, linear: flowers peduncled: stems diffuse.
The Cape. *L'Herit. fert. Angl.* 23.
- laterifolia.* Leaves linear, villous: peduncles lateral, shorter than the
leaves.
The Cape. *L'Herit. fert. Angl.* 23.
- cuneata.* Leaves obovate, glabrous: flowers sessile.
The Cape. *L'Herit. fert. Angl.* 23.
- virgata.* Leaves linear, glabrous, with a recurved point shorter than
the leaf: flowers sessile.
The Cape. *L'Herit. fert. Angl.* 23.
- paleacea.* Leaves linear, 3-sided, hoary underneath: shoots hoary:
calyx sessile, turbinate.
The Cape. *L'Herit. fert. Angl.* 24. Receptacle entirely chaffy.
- santolinoides* Leaves linear, 3-sided, hoary underneath: shoots hoary:
calyx globular, slightly peduncled.
The Cape. *L'Herit. fert. Angl.* 24.
- tomentosa.* Leaves linear, downy: flowers terminal, sessile.
The Cape. *Thunb. prodr.* 146.
- reflexa.* Leaves linear, downy: calyx-scales setaceous, reflected.
The Cape. *Thunb. prodr.* 146.
- pungens.* Leaves linear, somewhat pungent, striate underneath: flow-
ers sessile.
The Cape. *L'Herit. fert. Angl.* 24.
- decussata.* Leaves linear, 3-sided, acute, decussate: flowers sessile.
The Cape. *L'Herit. fert. Angl.* 24.
- trinervis.* Leaves lanceolate, glabrous, 3-nerved underneath: flowers
sessile, terminal.
The Cape. *Thunb. prodr.* 146.

*quinquer-
vis.* Leaves lanceolate, villous, 5-nerved underneath: flower
sessile.

The Cape. *Thunb. prodr.* 146.

pinnata. Leaves pinnate, with linear leaflets.

The Cape. *Thunb. prodr.* 146.

1545. ZINNIA. *Receptacle* chaffy: *seed* crowned
with 2 erect awns: *calyx* ovate-cylindrical, im-
bricate: *florets* of the ray about 5, permanent,
entire.

pauciflora. Flowers sessile: leaves opposite, heart-lanceolate: clasping,
sessile.

Peru. *Act. Petrop.* 1763. p. 325. t. 13. Stem glabrous.

multiflora. Flowers peduncled: leaves opposite, ovate-lanceolate, slight-
ly petioled.

Louisiana. *Curt. Maz. p.* 149 *Jacq. obs.* 2. t. 40.

vericillata Flowers peduncled: leaves in whorls, ovate-lanceolate,
slightly petioled: ray double.

Mexico. *Andrews repos.* t. 189. Leaves 3—5 in a whorl.

elegans. Flowers peduncled: leaves opposite, heart-ovate sessile,
clasping: stem hairy: chaff of the coral ferrate.

Mexico. *Curt. Mag.* t. 527. *Andrews repos.* t. 55.

tenuifolia. Flowers peduncled: leaves opposite, heart-lanceolate, pe-
tioled: ray linear-lanceolate, reflected.

Mexico. *Curt. Magaz.* t. 555. *Jacq. ic.* 3. t. 590.

1546. CHRYSANTHEMUM, *Receptacle* naked:
down 0: *calyx* hemispherical, imbricate, with
the scales dilated and membranaceous at the mar-
gin. Ox-eye.

A. *With the ray white.*

*pinnatifid-
um.* Shrubby: leaves glabrous, tapering to the base, pinnatifid,
with cut segments.

Madeira. *Peduncles* terminal 1—3-flowered.

paludosum. All the leaves wedge-oblong, obtusely ferrate: stem branch-
ed, diffuse.

Barbary. *Desfont. Atl.* 2. t. 238. Flowers terminal.

atratum. All the leaves wedge-oblong, sharply ferrate: stem simple,
1-flowered, erect.

Switzerland, Austria. *Calyx* with a black margin.

- heterophyllum*. Leaves sessile; lower ones linear-lanceolate, ferrate; upper-ones spatulate.
Piedmont. *Willd. 3. p. 2142.* Upper-leaves minute.
- **Leucanthemum*. Leaves clasping, oblong, obtuse, cut, pinnatifid at the base; radical-ones obovate, petioled.
Pastures. *Eng. Bot. t. 601. Curt. Lond. fasc. 5. t. 62.*
- montanum*. Upper-leaves linear-lanceolate, ferrate; lower-ones petioled, spatulate, ferrate: stem about 1-flowered.
Montpellier. *Jacq. obs. 4. t. 91. Allion. Ped. t. 37. f. 2.*
- rotundifolium*. Leaves petioled, ferrate; lower-ones roundish; upper-ones ovate: stem 1-flowered.
Hungary. *Waldst. Kitaib pl. rar. Hung.*
- ceratophylloides*. Leaves pinnate, with linear acute leaflets: stem erect, 1-flowered.
Piedmont. *Allion Ped. tab. 37. f. 1.*
- graminifolium*. Leaves linear, nearly entire: stem quite simple.
Montpellier. *Jacq. obs. 4. t. 92. Magn Hort. t. 31.*
- coccineum*. Leaves pinnate, glabrous, with pinnatifid acute leaflets: peduncle thickened.
Iberia. *Willd. 3. 2144.* Ray scarlet or purple.
- tanacetifolium*. Leaves pinnate, hairy, with pectinate-ferrate leaflets: calyx downy.
Levant. *Willd. 3 p. 2145.* Stem pubescent at the base.
- monspeliense*. Lowest-leaves palmate, with linear pinnatifid leaflets.
Montpellier. *Jacq. obs. 4. p. 10. tab. 93.*
- Achilleæ*. Leaves doubly pinnate, with oblong ferrate leaflets: flowers corymbed.
Italy. *Mich. gen. t. 29.* Leaves with a white point.
- argenteum*. Leaves hoary, doubly pinnate, with very entire acute leaflets: stem simple, 1-flowered.
Levant. *Leaves silky-white: ray large, white.*
- arcticum*. Root-leaves 3-parted, cut-toothed; stem-leaves wedge-form, 3-parted, obtuse.
Kamtschatka. *Gmel. Sib. 2. p. 203. tab. 84.*
- carinatum*. Leaves doubly pinnate, fleshy, glabrous: calyx-scales carinate.
Barbary *Curt. Magaz. t. 508. Andr. repos. t. 109. C. tricolor.*
B. *With the ray yellow.*

- indicum.* Leaves ovate, tapering to the base, 3-lobed, toothed; stem branched: branches 1-flowered.
East Indies. *Rumph. Amb.* 5. t. 91. f. 1. *Rheed. Mal.* 10. t. 44.
- pectinatum.* Leaves pinnate, linear, parallel, acute, very entire, peduncles solitary, 1-flowered.
Spain, Italy. *Barr. ic.* 421. Stems prostrate, creeping.
- *Segetum.* Leaves clasping, glaucous, jagged at top, toothed towards the base.
Corn fields. *Eng. Bot.* 1. 549. *Curt. Lond fasc.* 6. t. 60.
- italicum.* Leaves doubly pinnate, serrate: ray as long as the disk: stem procumbent.
Italy. *Branches* 1-flowered.
- umbrosum.* Leaves sessile, oblong-lanceolate, tapering to the base, pinnatifid and serrate: stem erect, branched at the base.
Mount Athos. *Willd* 3. p. 2149.
- coronarium.* Leaves doubly pinnatifid, acute, broader outwards: stem branched.
Crete, Sicily, Switzerland. *Moris. sect.* 6. t. 4 f. 2. 3.
- C. *Doubtful.*
- japonicum.* Leaves petioled, cut and toothed at top.
Japan. *Thunb jap.* 321. Leaves oblong.
- incanum.* Shrubby: leaves 3-cleft, downy.
The Cape. *Thunb. prodr.* 161.
- glabratum.* Herbaceous: leaves pinnate, glabrous, with linear leaflets.
The Cape. *Thunb. prodr.* 161.
- birtum.* Herbaceous: leaves doubly pinnatifid, hairy: stem flexuous.
The Cape. *Thunb. prodr.* 161.

1547. PYRETHRUM. *Receptacle* naked: *seeds* crowned with a membranaceous margin: *calyx* hemispherical, imbricate; the scales rather acute and scarious on the margin. *Fewerfew.*

A. *With the ray white.*

- frutescens.* Shrubby; leaves fleshy, pinnatifid, linear toothed; the uppermost linear and 3-cleft.
Canaries. *Walt. hort.* t. 24. *Pluk. alm.* t. 272. f. 6.
- simplicifolia.* Leaves obovate, toothed at top: peduncles axillary: stem prostrate:
Curacao. *Leaves* glabrous, coarsely toothed at top.

- starmicaefolium*. Leaves linear, ferrulate; flowers corymbed.
Caucasus. Willd. 3. p. 2151. Leaves finely ferrulate.
- serotinum*. Leaves lanceolate; lower-ones ferrate at top; upper-ones very entire: branches corymbed.
North America. Jacq. Obs. 4. t. 90. Moris. f. 6. t. 9 f. 11.
- uliginosum*. Leaves lanceolate, all deeply ferrate: stem erect, branched at top.
Hungary. Waldb. Kitaib. pl. rar. Hung.
- Halleri*. Stem-leaves lanceolate, deeply toothed; radical-ones pinnatifid: stem 1 flowered.
Switzerland. Scheuch. it. p. 42. Barr. ic. 458. f. 2.
- alpinum*. Lower-leaves pinnatifid-toothed; uppermost linear, very entire: stem 1-flowered
Alps. Barr. ic. 458. f. 3. Calyx scales black.
- Balsamita*. Leaves ovate-oblong, ferrate; radical-ones petioled; stem-leaves sessile, auricled at the base: flowers corymbed.
Levant. Jacq. Obs. 4. t. 89. Leaves a little downy.
- palustre*. Leaves, glabrous, sessile, lyre-pinnatifid: peduncles 1-flowered, corymbed.
America. Willd. 3. p. 2154. Stem grooved, glabrous.
- pinnatifidum*. Leaves pubescent glaucous, nearly sessile, lyre-pinnatifid, unequally toothed: flowers corymbed.
—Willd. 3. p. 2154. Stem slightly pubescent.
- macrophyllum*. Leaves hairy, nearly sessile, pinnatifid, toothed, obtuse: corymb terminal, compound.
Hungary. Waldb. Kitaib. Hung. 1. t. 94.
- corymbosum*. Leaves pinnate; leaflets lanceolate, pinnatifid, sharply ferrate, uppermost confluent: peduncles corymbed.
South of Europe. Jacq. Austr. t. 3. 379. Pulk. alm. t. 82 f. 1.
- **Parthenium*. Leaves pinnate, leaflets oblong, obtuse, pinnatifid, toothed, the uppermost confluent: stem branched: flowers corymbed; ray nearly twice as long as the calyx: crown of the seeds toothed.
Walter. Engl. Bot. t. 1231. Woodw. t. 249. Blackw. t. 192.
- partheniolum*. Leaves pinnate; leaflets oblong, obtuse, pinnatifid, toothed, uppermost confluent: stem wand-like: flowers corymbed; ray thrice as long as the calyx: crown of the seeds very entire.
—Willd. 3. p. 2156

- caucasicum*. Leaves doubly pinnate, with linear-subulate leaflets: stem 1 flowered.
Caucasus. *Willd. 3. p. 2156*. Crown of the seeds 2-lobed.
- fuscatum*. Leaves pubescent, pinnate, with trifid linear leaflets: stem branched at the base, diffuse:
Barbary. *Desfont. Atl. 2. t. 237*.
- *inodorum*. Leaves doubly pinnate; leaflets linear-filiform, 2 or 3-parted: stem diffuse, branched: crown of the seeds very entire.
Walters. *Eng. Bot. t. 676. Flor. Dan. t. 696*.
- *maritimum*. Leaves doubly pinnate; leaflets 3-cleft, linear, obtuse, fleshy, convex above, carinate underneath: crown of the seeds lobed.
Sea Coasts. *Eng. Bot. t. 979. Dill. Ray. syn. 186. t. 7 f. 1*.
- parviflorum*. Leaves doubly pinnate; leaflets linear-filiform, 2 or 3-parted: stem erect, branched: crown of the seeds 2-lobed.
——*Willd. 3. p. 2158*. Crown of the seeds green.
- B. *Ray of the flower yellow.*
- myconis*. Leaves tongue-shaped, obtuse, serrate: calyx-scales equal.
Spain. Italy. *Jaq. obs. 4. t. 94. Willd. 3. p. 2148*.
- multicaule*. Lower-leaves petioled, linear-spatulate, toothed; upper-ones sessile, linear, entire: stem erect, branched at the base.
Barbary. *Desfont. Atl. 2. t. 236*. Crown of the seeds denticulate.
- trifurcatum*. Leaves pinnate, linear; upper-ones 3-parted; uppermost undivided: stem ascending, 1-flowered.
Barbary. *Desfont. Atl. 2. t. 235. f. 2*.
- Bocconi*. Leaves hoary, petioled, pinnate, with linear-subulate leaflets; upper-ones linear, very entire: stems 1-flowered.
Spain: *Bocc. Mus. 2. t. 98. Affo. syn. n. 845. t. 9. f. 1*.
- orientale*. Leaves doubly pinnate, with linear leaflets: stems ascending, 1-flowered.
Georgia. *Willd. 3 p. 2159*. Upper-leaves simply pinnate.
- millefolium*. Leaves doubly pinnate, linear, obtuse: stem ascending, somewhat corymbed; ray as long as the scales of the calyx.
Siberia. *Gmel. Sib. 2. t. 86. f. 1. 2. Mill. fig. t. 9*.
- bipinnatum*. Leaves hoary, doubly pinnate, linear, obtuse: stem simple: peduncles mostly in pairs: ray shorter than the disk.
Siberia. *Gmel. Sib. t. 85. f. 1*. Leaves hairy.

1548. MATRICARIA. *Receptacle* naked, cylindrico conic: *down* 0: *calyx* flattish, imbricate; the scales scarious at the margin. *Mother wort.*

pauciflora. Leaves triply pinnate: calyx-scales acute.
Europe. *Flowers* half the size of the next.

**Chamaemilla.* Leaves pinnate and doubly pinnate: calyx-scales rather obtuse.
Wallés. *Engl. Bot.* t. 1232. *Curt. Lond. fasc.* 5. t. 63.

capensis. Leaves doubly pinnatifid, glabrous: stem branched, somewhat shrubby.
The Cape. *Seba. Mus.* 1. t. 16. f. 2. Leaves fleshy.

1549. BOLTONIA. *Receptacle* cellular, hemispherical: *seeds* crowned with a toothed margin and 2-awned: *florets* of the ray numerous: *calyx* imbricate,

asteroides. Leaves lanceolate, very entire.
Pennsylvania. *Aiton, kew.* 3. p. 197. Leaves glaucous.

glastifolia. Leaves lanceolate, the lower ones serrate.
Pennsylvania. *Aiton, kew.* 3. p. 197.

1550. LIDBECKIA. *Receptacle* naked: *down* 0: *seeds* angular, with the lowermost joint of the style permanent: *florets* of the ray numerous: *calyx* many-parted.

lobata. Leaves petioled, 5-lobed.
The Cape. *Lamarck illust. gen.* t. 701. f. 3. *Lancisa.*
Leaves hoary and a little downy underneath, with mucronate lobes.

pectinata. Leaves pinnatifid, glaucous underneath.
The Cape. *Lam. gen.* t. 701. f. 2. *Berym. Cap.* t. 5. f. 9.

turbinata. Leaves doubly pinnate, villous: *receptacle* conic, hollow.
The Cape. *Lamarck. gen.* t. 701. f. 1. *Morin.* f. 6. t. 12. f. 14.
Receptacle. fistular, with the minute equal leaflets of the calyx seated on its margin: *ray* ovate, white, red underneath.

bipinnata. Leaves doubly pinnate, glabrous: *calyx* imbricate.
The Cape. *Thunb. prodr.* 161. Hardly of this genus.

1551. COTULA. *Receptacle* naked or villous: *seeds* crowned with a margin: *florets* of the centre 4-cleft, of the ray hardly any.

- filifolia*. Leaves half sheathing, filiform.
The Cape. *Thunb. prodr.* 161.
- anthemoides*. Leaves pinnatifid and many-cleft, dilated: flowers without ray.
Spain, *Dill. Elth. t. 23. f. 25*. Stem hairy, flowers drooping.
- aurca*. Leaves pinnate, in many setaceous divisions: flowers without ray, drooping.
South of Europe. *Sp. pl.* 1257.
- pubescens*. Stem prostrate: leaves pinnate, pubescent: peduncles filiform, naked, 1-flowered: calyx-scales scarious at the margin.
Barbary. *Deffont. Atl. 2. p. 284*. Peduncles leafless.
- perfolia*. Leaves pinnate, glabrous: calyx-scales ovate, obtuse.
The Cape. *Thunb. prodr.* 162.
- nudicaulis*. Leaves pinnate, hairy: calyx scales ovate, obtuse.
The Cape, *Houtt. Linn. syst. 9. p. 499. t. 69. f. 4*.
- abrotanifolia*. Leaves pinnate, villous, with linear very entire leaflets: stem branched at the base.
Crete. *Willd. 3. p. 2167*. Leaves silky-villous.
- coronopifolia*. Leaves lance-linear, clasping, pinnatifid toothed: stem procumbent: branches 1-flowered.
Germany, The Cape. *Flor. Dan. t. 341. Dill. Elth. t. 23. f. 26*.
- viscosa*. Leaves lyre pinnate: flowers radiate.
Vera cruz. *Plant viscid.*
- bipinnata*. Leaves sessile, doubly pinnate, glabrous: stem glabrous.
The Cape. *Thunb. prodr.* 162.
- globifera*. Leaves doubly pinnate, glabrous: stem pubescent.
The Cape. *Thunb. prodr.* 162.
- tanacetifolia*. Leaves triply pinnate, with acute segments: stem erect: flowers without ray, corymbed.
The Cape. *Pluk Mant. t. 430. f. 7. Millefolium*.
- sericea*. Leaves triply pinnate, silky-downy: scape 1-flowered.
The Cape. *Stems* simple, procumbent, downy, white.
- umbellata*. Leaves lanceolate, hairy: stem erect: flowers umbelled.
The Cape. *Stems* erect, hairy: *umbel* 5-flowered.
- quinquefida*. Leaves wedge-form, 5-cleft, hoary.
The Cape. *Thunb. prodr.* 161.

- cuneifolia*. Leaves wedge form, glabrous, 3-toothed, petioled: flowers axillary, nearly sessile.
China. *Lamarck. illust. gen. t. 699. f. 2.* Grangea.
- minuta*. Leaves oblong wedge-form, ferrate, sessile: flowers sessile, opposite the leaves.
New South Wales. *Forst. prodr. n. 301.*
- minima*. Leaves oblong wedge-form, repand-toothed, petioled: flowers axillary, sessile.
China. *Burm. ind. t. 58. f. 3. Sp. pl. 1190.* Artemisia.
Plant exceedingly minute: leaves glabrous.
- moderaspatica*. Leaves oblong, sinuate, toothed, pubescent: stem branched, procumbent: peduncles 1-flowered, opposite the leaves.
Madras. *Pluk. amaltb. t. 357. f. 3.* Artemisia. *Sp. pl.*
- bicolor*. Leaves obovate, toothed, cut at the base, petioled: peduncles branched.
East Indies. *Burm. ind. t. 60. f. 2. Lam. gen. t. 699. f. 1.*
- pyrethraria*. Leaves opposite, ovate, crenate, petioled: peduncles 1-flowered.
America. Flowers ovate, white.
- spilanthus*. Leaves opposite, lanceolate, very entire, 3-nerved.
Carthage. *Jacq. Amer. t. 120. f. 1.* Spilanthus.
1552. ANACYCLUS. Receptacle chaffy: seeds crowned with an emarginate margin; those of the ray membranaceous at the sides
- creticus*. Leaves doubly pinnate, with oblong leaflets: stem procumbent.
Crete. Flowers small, white, single, declining.
- orientalis*. Leaves doubly pinnate, with linear-subulate flat leaflets: stem ascending: peduncle naked, terminal.
Levant. *Boerb. Lugdb. 1. tab. 110.*
- aureus*. Leaves doubly pinnate, with nearly cylindrical leaflets, hoary, with hollow dots.
South of Europe. Uppermost leaf simply pinnate.
- alexandrinus*. Leaves doubly pinnate, with linear flat leaflets: stem prostrate: axillary flowers nearly sessile; the terminal one peduncled.
Egypt. *Willd. 3. p. 2173.* Calyx hoary-pubescent.
- valentinus*. Leaves decomposed, linear; leaflets divided, nearly cylindrical, acute: flowers without ray.
Spain, Barbary. *Clus. ic. tab. 773.*

1553. ANTHEMIS. *Receptacle* chaffy: *seeds* generally crowned with a slight border: *calyx* hemispherical, nearly equal: *florets* of the ray more than 5, oblong. *Chamomile*.

A. *With a differently coloured or white ray.*

- Cota*. Leaves doubly pinnatifid, with linear subulate toothed segments: chaff cylindrical, pungent, dilated at the base. Italy. *Pluk. alm. t. 17. f. 5. Moris sect. 6. t. 8. f. 11.*
- altissima*. Leaves doubly pinnatifid, with lanceolate slightly-toothed segments, the lower-teeth somewhat reflected: chaff lanceolate, cuspidate. Spain, Italy. *Chaff* ending in a rigid bristle.
- punctata*. Leaves dotted underneath, doubly pinnatifid, with entire segments: crown of the seeds toothed: stem somewhat shrubby. Atlas. *Vahl symb. 2. t. 46. Desfont. Atl. 2. t. 239.*
- *maritima*. Leaves dotted underneath, doubly pinnatifid, with lanceolate entire segments: seeds with an entire crown: stem prostrate. Sea coast. *Till. Pis. t. 19 f. 3. Calyx* a little downy.
- clavata*. Leaves doubly pinnate, linear: peduncles inflated: seeds winged. Barbary. *Desfont. Atl. 2. p. 287.*
- tomentosa*. Snowy-downy: leaves pinnate, with 3-5-cleft leaflets: calyx downy: stem erect. Asia. *Upper-leaves* simple, rather obtuse.
- pubescens*. Leaves doubly pinnate, with linear leaflets: stem erect, pubescent: calyx pubescent, the lower-scales sphenolate at top. France, Spain. *Gouan. illustr. 70. Plant* pubescent.
- australis*. Leaves doubly pinnate, with linear leaflets. stem branched, procumbent: peduncles naked, erect, downy. South of France. *Willd. 3. p. 2177. Stem* and leaves downy.
- mixta*. Leaves sessile, pinnatifid, with toothed segments: stem erect, branched. France, Italy. *Mich. gen. t. 30. f. 1. Moris. f. 6. t. 18. f. 15.*
- coronopifolia*. Leaves linear, sessile, pinnatifid, with very entire segments: stem erect, branched. Spain. *Willd. 3. p. 2178. Segments* of the leaves lanceolate.

- alpina.* Leaves sessile, pinnatifid, with linear subulate pectinate very entire segments: stem pubescent, 1-flowered.
Alps. *Jacq. Aust. 6. app. t. 30. Till pis. t. 19. f. 1.*
- carpatia.* Leaves pinnate, with linear very entire obtuse leaflets: stem glabrous, 1-flowered.
Alps. *Waldst. Kitaib. Hung.*
- corymbosa.* Leaves mostly doubly pinnatifid, linear, acute: stem simple, nearly erect, villous: petals obovate, very obtuse, 3-toothed.
Alps. *Haenke. ic. Jacq. collect. 2. p. 73.*
- chia.* Leaves petioled, doubly pinnatifid, with trifid oblong acute segments: petioles sheathing: the sheaths toothed.
Chio. *Leaves a little hairy, fleshy.*
- *nobilis.* Leaves doubly pinnate: leaflets 3-parted, linear-subulate, a little downy: chaff of the receptacle scarious, hardly as long as the florets.
Pastures. *Eng. Bot. t. 980. Woodw. t. 103. Blackw. t. 526.*
- *arvensis.* Receptacle conic; chaff lanceolate, acute, carinate, exerted: seeds crowned: leaves doubly pinnatifid, hairy, with linear-lanceolate, segments.
Wastes. *Eng. Bot. t. 602. Plant a little hoary.*
- austriaca.* Receptacle conic; chaff oblong, mucronate: seeds naked: leaves doubly pinnate, woolly.
Austria, Italy. *Jacq. Austr. t. 444.*
- *Cotula.* Receptacle conic: chaff setaceous: seeds naked: leaves doubly pinnate, nearly glabrous, with linear-subulate 3-parted leaflets.
Corn fields. *Curt. Lond. fasc. 5. t. 61. Blackw. t. 67.*
- fuscata.* Receptacle somewhat conic: chaff oblong, obtuse: seeds naked: leaves doubly pinnate, linear-filiform, 3-parted, glabrous.
Portugal. *Willd. 3. p. 2182. Chaff edged with brown.*
- peregrina.* Leaves doubly pinnate, with linear acute leaflets: stem branched, flat-topped: branches 1-flowered, longer than the top of the stem: calyx-scales membranaceous.
Pedemont. *Receptacle conic: stem a little hoary.*
- nicaensis.* Lower-leaves doubly pinnatifid; upper-ones pinnate: stem branched, flat-topped.
Nice. *Willd. 3. p. 2182. Chaff oblong, acute: seeds naked.*

- pedunculata* Leaves pubescent, decomposed: peduncles elongated, leafless, 1-flowered: seeds 2-winged.
Barbary. *Desfont. Atl.* 2. 288. Chaff ovate, pointed.
- montana.* Leaves pubescent, pinnate, with linear trifid rather obtuse leaflets: stem ascending: peduncles elongated, naked, downy.
Italy. *Ger. Prov.* t. 8. *Col. phyt.* 1. t. 33.
- pontica.* Leaves hoary, pinnate, with 3-parted linear obtuse leaflets: stem branched at the base: branches erect, 1-flowered.
Levant. *Willd.* 3. p. 2184. Stems hoary-downy.
- Pyrethrum.* Leaves triply pinnate with linear leaflets: stem decumbent: branches axillary, 1-flowered. *Pellitory of Spain.*
South of Europe. *Curt. Magaz. tab.* 452. *Woodw. tab.* 104.
Blackw. t. 390.
Root thick, long, of an acrid burning taste, and is often chewed in tooth-aches and affections of the nerves of the face.
- artemisiæ-folia.* Leaves petioled, sinuate-pinnatifid, toothed, a little hoary underneath: stem shrubby.
China. *Curt. Magaz.* t. 327. *Chrysanthemum indicum.*
B Ray the colour of the disk or yellow.
- occidentalis.* Leaves opposite, petioled, ovate, serrate, 3-nerved, glabrous: ray 5-flowered.
America. Stems pubescent: seeds warty, without crown.
- bupthalamoides.* Leaves opposite, petioled, ovate, serrate, triply-nerved, pubescent underneath: ray many flowered.
Peru. *Jacq. Schænb.* 2. t. 151. *Cavan. ic.* 2. t. 167.
- Garcini.* Leaves wedge-form, truncate, toothed, downy: stem shrubby.
Persia. *Burm. ind.* 183. t. 60 f. 1.
- repanda.* Leaves simple, ovate-lanceolate, repand-crenate.
Spain, Portugal. Seeds square, crowned with 4 scales.
- dorata.* Leaves pinnatifid at top: peduncles elongated: calyx membranaceous: ray sterile.
The Cape. *Ait. kew.* 3. p. 238. Branches pubescent.
- trilobata.* Leaves petioled, 3-lobed; the lobes sinuate angular.
Mexico. *Ortega.* 6. p. 72. Stem and leaves underneath pubescent.
- violantha.* Leaves doubly pinnatifid, hairy: stem erect, leafy, 1-flowered.
Tauria. *Willd.* 3. p. 2187. Chaff lance-subulate.
- glabrosa.* Leaves hairy, doubly pinnatifid, with trifid lance-linear segments: stem nearly erect, divided.
Mexico. *Jacq. hort. Schænb.* 3. t. 371.

Marshalliana. Leaves hoary, doubly pinnate, with linear entire or 3-cleft pectinate segments: stems ascending, 1-flowered: calyx-scales membranaceous at top.

Caucasus. *Willd. 3. p. 2187.* Chaff truncate, bifid.

valentina. Leaves triply pinnate, with linear-subulate pubescent leaflets: stem branched, divaricate; branches taller than the stem: peduncles thickened.

France, Spain. *Breyn. cent. t. 75.* Stem purplish.

discoidea. Leaves doubly pinnate, serrate, glabrous; stem erect, branched: crown of the seeds membranaceous, toothed, cut on one side.

Italy, Greece. *Willd. 3. p. 2188.* Flowers without ray.

viniflora. Leaves doubly pinnatifid, serrate, pubescent underneath: stem erect, branched: crown of the seeds membranaceous, very entire.

Stony fields. *Engl. Bot. t. 1472. Flor. Dan. t. 741.*

arabica. Leaves pinnate, with linear 3-parted leaflets: stem profliferous: flowers solitary, lateral, sessile.

Barbary. *Hort. Cliff. t. 24. Sharv. Afr. t. 36. f. 58.*

1554. SANVITALIA. Seeds of the ray 3-awned; of the margin naked, warty; of the centre winged: calyx imbricate, flat.

procumbens. Stem procumbent: leaves ovate, very entire.

Mexico. *Cavan. ic. 4. t. 351. Lamarck gen. t. 686.*

belianthoides. Stem erect: leaves ovate-oblong, serrate at top.

Peru. *Willd. 3. p. 2190.* Flowers peduncled,

1555. ACHILLEA, Receptacle chaffy: down 0: calyx ovate, imbricate, unequal: florets of the ray 5---10, inversely heart-shaped or roundish.

Yarrow, Milfoil.

A. Leaves undivided..

lingulata. Leaves oblong, linear, obtuse, doubly serrate, pubescent, ciliate: stem villous.

Hungary. *Waldst. Kitaib. pl. Hung. 1. t. 2.*

Herba rota. Leaves linear, tapering to the base, serrate, glabrous: stem glabrous.

Alps. *Allion Pedem. n. 656. t. 9. f. 3.* Leaves obtuse.

Prarmica. Leaves linear-lanceolate, pointed, glabrous, equally and sharply serrate.

Groves. *Engl. Bot. t. 757. Curt. Lond. fasc. 5. t. 60.*

crislata. Leaves linear, flat, pointed, toothed; the teeth emarginate, placed transversely, ciliate with serratures: stem branched, diffuse, pubescent upwards.
Italy. Flowers in lax simple terminal corymbs.

Ageratum. Leaves oblong, obtuse, serrate, tapering to the petiole, fascicled, glabrous: corymb compound, condensed.
South of Europe. *Blackw. t. 300. Mill. fig. t. 10.*

B. *Leaves pinnatifid.*

alpina. Leaves linear, pectinate-pinnatifid, glabrous, with slightly serrate segments: corymb compound.
Alps. *Bocc. Mus. t. 101.* Leaves often serrate only.

serrata. Leaves downy, linear-lanceolate, pinnatifid; the segments deeper at the base: corymb simple.
Switzerland. Leaves hoary each side.

coronopifolia. Leaves pubescent, pinnatifid, with lanceolate, serrate segments: corymb compound.
Levant. *Willd. Ach. p. 18. t. 1. f. 2.* Stem pubescent.

Clavennæ. Leaves downy, pinnatifid, with linear obtuse segments, the uppermost slightly toothed at top: corymb simple.
Alps. *Jacq. Austr. t. 76. Willd. Ach. n. 7. t. 1. f. 1.*

Gerberia. Stem-leaves pinnatifid, with very entire segments; radical-ones pinnatifid, with trifid segments: florets of the ray hardly longer than the calyx.
Siberia. *Gmel. Sib. 2. t. 83. f. 2.* Stem pubescent.

pilosa. Leaves hairy underneath, pinnatifid: segments lanceolate, the lowermost 2-parted: corymb compound.
— *Willd. Ach. p. 31. n. 19.* Stem and leaves pubescent.

impatiens. Leaves glabrous, pectinate-pinnatifid; segments linear, acute, lower-ones 2-parted: corymb simple.
Siberia. *Gmel. Sib. 2. t. 83. f. 1.* Stem and leaves glabrous.

pectinata. Leaves pectinate-pinnatifid, with linear-subulate very entire segments: corymb compound, condensed: stem pubescent.
Hungary. *Waldst. Kitaib. Hung. 1. tab. 34.*

squarrosa. Leaves pinnatifid, segments oblong wedge-form, unequally toothed, bent in a kind of whorl: corymbs simple.
— *Ait. kew. 3. p. 242.* Stem pubescent.

C. *Leaves pinnate, with transverse somewhat imbricate leaflets.*

- serotifolia.* Leaves cylindrical, hoary pubescent, with transverse truncate toothed closely imbricate leaflets: corymb simple.
Galatia. Willd. 3. p. 2198. Stems hoary pubescent.
- falcata.* Leaves somewhat cylindrical, hairy, with 3-parted toothed transverse closely imbricate leaflets: corymbs simple.
Levant. Leaves hairy: flowers yellow.
- tenuifolia.* Leaves somewhat cylindrical, downy, with 3-parted, obtuse very entire transverse imbricate leaflets; ray hardly longer than the calyx: stem branched.
Levant. Shrub branched, erect: flowers yellow.
- Santolina.* Leaves somewhat downy; leaflets transverse, distant, 3-parted, with 3-toothed segments: stem branched.
Levant. Stem downy; corymbs simple: flowers yellow.

D. Leaves pinnate, with flat leaflets.

- anthemoides* Leaves pubescent; leaflets linear, very entire, obtuse, the lower ones longer: cymes simple.
— Willd. 3 p. 2200. Corymbs simple: flowers yellow.
- atrata.* Leaves glabrous, pectinate-pinnate; leaflets linear, pointed, often 3-parted: cymes simple: peduncles pubescent: stem quite simple.
Alps. Jacq. Ausir. t. 77. Till. pis. t. 19. Ray white.
- moschata.* Leaves glabrous, pectinate; leaflets linear, rather obtuse, very entire, dotted.
Alps. Jacq. Ausir. 5. app. t. 33. Scop. insub. t. 3.
- ana.* Leaves villous, with linear toothed leaflets; radical-ones doubly pinnate: stem quite simple.
Alps. Allon. Ped. t. 9. f. 3. All. spec. t. 2. f. 3.
- cretica.* Leaves pubescent; leaflets roundish, 4-cleft, concave, spreading: stem branched at top.
Crete. Moris. 3. sect. 6. t. 11. Boer. Mus. 2. t. 34.
- egyptiaca.* Leaves downy: leaflets roundish, obtuse, toothed: corymb compound.
Egypt, Levant. Tourn. Cor. 37. it. 1. t. 87. Flowers yellow.
- E. Leaves pinnate; the outermost leaflets confluent.
- auriculata.* Leaves downy: leaflets oblong, auricled upwards at the base, obtusely toothed: corymb compound, condensed: ray shorter than the calyx.
The East. Willd. 3. p. 2203. Upper-leaves sessile.

macrophylla Leaves glabrous; leaflets lanceolate, cut-ferrate: corymb compound.

Alps. *Moris. sect. 6. t. 11. Bocc. Mus. 2. t. 110.*

F. Leaves doubly pinnatifid; or doubly pinnate.

pauciflora. Leaves downy, doubly pinnate; leaflets linear, very entire, obtuse: corymb about 4-flowered.

Spain, Levant. *Willd. 3. p. 2204.* Leaves silky.

aurea. Leaves downy, doubly pinnate; leaflets linear lanceolate, toothed: corymb simple: peduncles elongated.

Levant. *Lam. encycl. p. 26.* Flowers yellow.

Eupatorium. Leaves hoary-pubescent, doubly pinnatifid; segments linear-lanceolate, ferrate: corymb compound, globular: flowers without ray.

Near the Caspian sea. *Buxb. cent. 2. t. 19.* Parmica.

compacta. Leaves silky-villous, doubly pinnatifid; segments lanceolate, very entire: corymb compound, condensed: flowers without ray.

— *Willd. 3. p. 2206.* Flowers yellow, without ray.

pubescens. Leaves pubescent, doubly pinnatifid; segments linear-lanceolate, unequal, auricled: corymb compound.

Levant. *Stem erect: flowers pale sulphur-yellow.*

cribbmifolia Leaves pubescent; those of the stem doubly pinnatifid, with linear obtuse segments; radical-ones doubly pinnate, with 3-parted leaflets: corymb compound.

Hungary. *Waldst Kitzeib. Hung. 1. t. 68.*

Plant hoary, with appressed hairs: flowers white.

tanacetifolia. Leaves doubly pinnatifid, with lanceolate ferrate segments: corymb compound, spreading.

Alps. *Moris. sect. 6. t. 11. f. 14.* Flowers reddish.

distans. Leaves doubly pinnatifid; segments lanceolate, cut-ferrate: midrib winged, cut-ferrate: corymbs flat-topped, compound.

Italy. *Allion. Ped. n. 668. t. 53. f. 1.* Flowers white.

magna. Leaves triply pinnatifid; segments lanceolate, acute: corymbs compound, flat-topped.

South of Europe. *Leaves auricled at the base.*

**Millefolium.* Leaves a little hairy, doubly pinnatifid, with linear toothed mucronate segments: corymb compound.

Wastes. *Engl. Bot. t. 758, Curt. Lond. fasc. 6. t. 61.*

- micrantha*. Leaves pubescent, doubly pinnatifid, with lanceolate entire segments: corymb compound.
Cappadocia. *Flowers* deep yellow.
- tomentosa*. Leaves villous, doubly pinnatifid; segments much crowded, linear-lanceolate, entire: corymb compound.
South of Europe. *Curt. Mag. t. 498*. *Flowers* yellow.
- ochroleuca*. Upper-leaves doubly pinnatifid; lower-ones pinnatifid; segments linear-lanceolate: corymb compound: calyx cylindrical.
— *Willd. j. p. 2210*. Stem and leaves downy.
- microphylla*. Leaves doubly pinnatifid, shorter than the internode of the stem, with linear very entire segments: corymb compound, flat-topped.
Spain. *Bar. ic. 1114*. Stem and leaves pubescent.
- ligustica*. Leaves doubly pinnatifid, with linear sharply serrate segments; midrib winged, very entire: corymb compound, flat topped.
Italy. *Allion. Ped. t. 53. f. 2*. *Flowers* white.
- nobilis*. Stem-leaves doubly pinnatifid, with linear slightly-toothed segments, midrib winged toothed; radical-ones triply pinnatifid: corymb compound, flat-topped.
South of Europe. *Moris. sect. 6. t. 11*. Leaves downy.
- odorata*. Leaves hairy underneath, doubly pinnate, with linear entire leaflets: corymb simple.
Alps. *Wolf. Jacq. collect. 1. t. 21*. *Flowers* white.
- setacea*. Leaves doubly pinnate: leaflets linear-setaceous, mucronate, much crowded, hairy: corymbs compound, flat-topped.
Hungary, Saxony. *Waldst. Kitaib. Hung. 1. t. 80*.
- abrotanifolia*. Leaves pubescent, doubly pinnate; leaflets very narrow, linear, entire, distant: corymbs compound, flat-topped.
Levant. *Calyx* somewhat globular: *flowers* yellow.

1556. ACTINEA. *Receptacle* naked: *seeds* crowned with a many-leaved chaff; the chaff awned: *calyx* many-leaved, equal.

Heterophylla Actinea:

Bonaria. *Juss. Ann. Mus. nat. Par. 2. 425. t. 61. f. 2*.

Shrub branched; *lower-leaves* lanceolate, deeply toothed: upper-ones linear, very entire: *flowers* solitary, peduncled: *seeds* villous.

1557. TRIDAX. *Receptacle* chaffy: *down* many-rayed, simple: *calyx* imbricate, cylindrical: *florets* of the ray 3-parted.

procumbens. Tridax.

Vera Cruz. *Herb* procumbent, hairy: *leaves* in pairs, acute, sharply toothed: *flowers* peduncled, terminal, whitish copper-yellow.

1558. BALBISIA. *Receptacle* chaffy: *down* sessile, feathery: *calyx* simple, 8-leaved: *florets* of the ray 3-parted.

elongata. Balbisia.

Mexico. *Willden. sp. pl.* 3. p. 2214.

Stems ascending, bristly: *leaves* opposite, ovate, coarsely toothed in the middle, acute at both ends: *peduncles* terminal, 1-flowered: *calyx* cylindrical, bristly: *flowers* yellow,

1559. AMELLUS. *Receptacle* chaffy: *down* simple: *calyx* imbricate: *florets* of the ray undivided.

Lychnitis. Stem shrubby: *leaves* hoary, linear-lanceolate, opposite; those of the stem alternate.

The Cape. *Jacq. collect.* 5. t. 10. f. 1. *Breyn. prodr.* t. 15. f. 2.

diffusus. Stem shrubby, much branched: *leaves* obovate-lanceolate, alternate, downy underneath.

Magellan's straits. *Forst. comm. Gatt.* 9. p. 39.

annuus. Stem herbaceous: *leaves* alternate, linear, hairy; those of the stem with a single tooth in the middle each side.

— *Roth. catal. bot.* 2. p. 111 Plant hairy: ray blue.

1560. STARKEA. *Receptacle* rough-haired: *down* sessile, simple: *calyx* imbricate.

umbellata. Starkea.

Amellus umbellatus. *Sp. pl.* 1276. *Amæn. acad.* 5. p. 407.

Jamaica. *Brown. Jam.* 320. t. 33. f. 2. Solidago.

Stem herbaceous, erect, simple, hairy: *leaves* somewhat decurrent, serrate, nerved: *flowers* umbelled, yellow.

1561. COLUMELLA. *Receptacle* naked, cellular: *seeds* crowned with a toothed margin: *calyx* cylindrical, imbricate: *florets* of the ray undivided.

biennis. Colummella.

The Cape. *Jacq. hort. Schænb.* 3. p. 28. t. 301.

Stem pubescent, corymbed: *leaves* linear, sessile, obtuse, hairy: *flowers* lateral, sessile, solitary; disk and ray yellow.

1562. ECLIPTA. *Receptacle* chaffy: down 0 :
florets of the centre 4-cleft.

erecta. Stem erect, with stiff bristles; leaves oblong-lanceolate,
 sessile, remotely serrate.

Virginia, Egypt. *Dill. Elth. t. 113. f. 137. Pluk. alm. t. 109 f. 1.*

punctata. Stem erect, rough, dotted: leaves lanceolate, sessile, serrate.
 St. Domingo. *Jacq. Amer. t. 129. pict. t. 197. Bellis.*
 Stem sprinkled with white dots.

latifolia. Stem erect: leaves ovate, petioled.
 East Indies. *Leaves* pubescent, serrate.

prostrata. Stem prostrate, with stiff bristles: leaves oblong-lanceolate,
 slightly petioled, serrate and undulate, rough.
 East Indies *Dill. Elth. t. 113. f. 138. Pluk. alm. t. 118. f. 5.*

undulata. Stem prostrate, hairy: leaves ovate, undulate, with stiff
 bristles.
 East Indies. *Willd. 3. 2219. Leaves* wedged at the base.

* - *Doubtful.*

procumbens. Procumbent or rising: leaves long-lanceolate, narrowed
 beneath, rarely serrate: peduncles longish: calyx-scales
 acute, lanceolate: florets 4-cleft.
 Carolina. *Mich. Amer. 2. p. 129.*

brachypoda. Prostrate and spreading: leaves lance-prostrate, flat, very
 rarely and slightly serrate: peduncles short, solitary and
 in pairs: calyx-scales oval-lanceolate: florets 5-cleft.
 Carolina. *Mich. Amer. 2. p. 130.*

1563. SIEGESBECKIA. *Receptacle* chaffy: down 0:
outer-calyx 5-leaved, proper, spreading: *ray*
 halved.

orientalis. Leaves petioled, ovate, unequally toothed, somewhat tri-
 angular and cut at the base: *outer-calyx* longer than
 the inner
 India, Mexico. *Hort. Cliff. t. 23. Cavan. ic. 3. t. 253.*

iberica. Leaves petioled, ovate, obtusely toothed, rounded at the base:
outer-calyx as long as the inner.
 Iberia. *Buxb. cent. 3. t. 52.*

boseculosa. Leaves sessile, ovate, toothed; flowers of the disk 3-toothed,
 triandrous.
 Peru. *L'Hér. Strip. 37. tab. 19.*

1564. PHAETHUSA. *Receptacle* chaffy: *down*
o: *seeds* bristly: *calyx* imbricate: *florets* of the
ray 1—3.

americana. Phaethusa.

North America. *Gartn. sem.* 2. p. 425. t. 169. f. 3.

Chrysanthemum americanum. *Pluk. mant.* t. 342.

Stem 18 feet high: *leaves* ovate, pointed, triply nerved, obscurely
ferrate, somewhat pubescent: *corymb* terminal, cross-armed,
large.

1565. VERBESINA. *Receptacle* chaffy: *down*
awned: *calyx* in a double row: *florets* of the ray
about 5.

olata. Leaves alternate, decurrent, undulate, obtuse.

West Indies. *Pluk. alm.* t. 84. f. 3. *Comm. hort.* 1. t. 3.

chinensis. Leaves alternate, petioled, ovate-lanceolate, ferrate.

China. *Stem* and *leaves* a little downy: *calyx* imbricate.

virginica. Leaves alternate, lanceolate, slightly ferrate: *corymb* com-
pound.

Virginia. *Florets* of the ray 3 or 4, white.

virgata. Leaves alternate, lanceolate, ferrate, tapering to both ends:
flowers somewhat umbelled.

Mexico. *Cav. ic.* 3. t. 275. *Florets* of the ray 12, yellow.

mutica. Leaves alternate, 3-parted, toothed; radical-ones oblong,
ferrate: *stem* creeping.

West Indies. *Sloan. Jam.* 1. t. 155. f. 1. *Swartz. obs.* t. 8. f. 1.

Seeds without awns: *calyx* that of a *Bidens*.

Boswallia. Leaves alternate, 3-parted, many-cleft, with linear-filiform
entire segments: *stems* diffuse.

East Indies. *Florets* of the ray 1: *chaff* lanceolate, glabrous.

gigantea. Leaves alternate, deeply pinnatifid: *stem* shrubby.

West Indies. *Jacq. ic. rar.* 1. t. 175. *Plum. ic.* t. 51.

pinnatifida. Leaves opposite, pinnatifid, ferrate, wedge-shaped and de-
current at the base.

Mexico. *Cavan. ic.* 1. t. 100. *Jacq. Schænb.* t. 305.

Siegesbeckia. Leaves opposite, ovate-lanceolate, ferrate, pointed at each
end, decurrent.

Virginia. *Siegesbeckia occidentalis*. *Sp. pl.* 1269.

Ray 1—3-flowered, yellow: *seeds* not margined.

- ferrata.* Leaves opposite, ovate-lanceolate, ferrate, downy underneath.
Mexico. *Cavan. ic.* 3. t. 214. Stems erect, downy.
- caenothifolia.* Leaves opposite, ovate, ferrate, quintuplinerved: peduncles racemed, panicked.
Mexico. *Willd.* 3 p. 2225. Leaves rough underneath.
- biflora.* Leaves opposite, ovate, ferrate, triply nerved: peduncles axillary, in pairs, about 2-flowered.
East Indies. *Rheed Mal.* 20. t. 40. Flowers yellow.
- ealendulacea.* Leaves opposite, oblong-lanceolate, rather obtuse, with bristly hairs, ferrate at top: peduncles 1-flowered, elongated: calyx simple.
Zeylon. *Burm. Zeyl.* t. 22. f. 1. *Rheed. Mal.* 10. t. 42.
Seeds with a short 4-toothed margin: calyx 5-leaved.
- nodiflora.* Leaves opposite, ovate, ferrate, triply nerved: flowers axillary, sessile: calyx simple: stem trichotomous.
Caribees. *Slaan. Jam.* 1. t. 154. *Dill. Elth.* t. 45 f. 3.
Seeds of the disk 2-awned, of the ray margined.
- dichatoma.* Leaves opposite, ovate, pointed, ferrate, triply nerved, hairy: peduncles lateral, 1-flowered: calyx simple: stem forked.
East Indies. *Murr. Comm. Gott.* 1779. p. 15. t. 4.
- fruticosa.* Leaves opposite, ovate, pointed, triply nerved, rough both sides: peduncles 1-flowered, axillary: calyx simple: stem shrubby.
South Armenia. *Plumic* 52. Seeds woolly.
1566. GALINSOGEA. *Receptacle* chaffy: down many-leaved, chaffy: calyx imbricate.
- parviflora.* Leaves ovate, triply nerved, ferrate.
Peru. *Cavan. ic.* 3. t. 281. Peduncles 1 or 2-flowered.
- trilobata.* Leaves oblong-lanceolate, toothed, triply nerved; lower-ones halbert-shaped and 3-lobed.
Peru. *Cavan. ic.* 3. t. 282. Flowers somewhat corymbed.
1567. PASCALIA. *Receptacle* naked: seeds drupaceous, crowned with a toothed margin: calyx imbricate.
- glauc.* Pascalia.
Chili. *Ortega. dec.* 4. p. 39 t. 4.
Stem nearly simple, erect: leaves glabrous, glaucous, opposite, sessile, ovate, toothed: flowers solitary, terminal, yellow.

1568. BUPHTHALMUM. *Receptacle* chaffy: seeds crowned with an obscure margin; their sides, especially those of the ray, margined.

Ox-eye.

- frutescens.* Leaves opposite, ovate, hoary: petioles 2-toothed: stem shrubby.
Jamaica, Virginia. *Catesby, Corol.* 1. t. 93. *Dill. Elth.* t. 28. f. 44.
Leaves veined above; stem-leaves with 2 subulate teeth.
- arborescens.* Leaves opposite, lanceolate, tapering to the base, very entire, toothed, glabrous.
Bahamas. *Dill. Elth.* t. 38. f. 43. *Plum.* t. 16. f. 2.
- lineare.* Leaves opposite, silky-hoary, linear, very entire, with a tooth or two in the middle each side: stem shrubby.
Peru. *Lamarck, encycl.* 2. p. 508. Leaves mucronate.
- sericeum.* Leaves opposite, closely approximate, spatulate-oblong, silky: calyx-scales setaceous, hairy: stem arboreous.
Teneriffe. Flowers terminal, yellow.
- repens.* Leaves opposite, sessile, 3 lobed: stem creeping.
St. Domingo. *Sloan. Jam.* 1. t. 155 f. 1. *Plum.* t. 107. f. 2.
Leaves slightly toothed: peduncles 1-flowered, solitary.
- uniflorum.* Leaves opposite, ovate-lanceolate, serrate, triply nerved, bristly, hoary and hairy underneath: peduncle terminal, 1-flowered, elongated.
Norfolk island. *Forst prodr.* n. 541.
- helianthoides.* Leaves opposite, ovate, serrate, triply nerved: calyx leafy: stem herbaceous.
America. *L'Herit. strip.* t. 45. *Mart. Cent.* t. 20.
- ramosum.* Leaves opposite, lanceolate, rough, nerveless, denticulate, slightly ciliate: calyx leafy: stem bristly.
Arabia felix. *Vahl. symb.* 2. p. 92. Leaves sessile.
- flosculosum.* Leaves alternate, spatulate, serrate, clasping, downy: flowers without ray: stem shrubby.
Mesopotamia. *Ventenat. Hort. Cels.* 1. t. 25.
- odorum.* Leaves alternate, linear-lanceolate, very entire, sessile: flowers lateral, nearly sessile: stem somewhat shrubby, dichotomous.
Morocco. *Schousb. Maroc.* 199. t. 7.
- spinosum.* Leaves alternate, oblong lanceolate, clasping, very entire, hairy: calyx leafy, mucronate.
South of Europe. *Blackw.* t. 272.

- graveolens*. Leaves alternate, pinnatifid: calyx-leaves acute.
Egypt. *Vabl. symb.* 1. t. 19. Leaves villous.
- pratense*. Leaves alternate, pinnatifid, wedge form, hairy: calyx-leaves acute.
Egypt. *Vabl. symb.* 1. p. 75. Leaves lobed.
- aquaticum*. Leaves alternate, oblong, obtuse, nearly entire: stem forked: calyx-leaves obtuse: flowers sessile, lateral.
Crete, Portugal. *Seba. thes.* 1 t. 29. f. 7. *Breyn. Cent.* t. 77.
- maritimum*. Leaves alternate, spatulate: stem herbaceous: calyx-leaves obtuse: flowers peduncled.
Mediterranean shores. *Bocc. Mus.* 2. t. 129.
- durum*. Leaves alternate, lanceolate, very entire: stem somewhat shrubby.
The Cape. *Pluk. alm.* t. 21. f. 3. Chrysanthemum.
- salicifolium*. Leaves alternate, oblong-lanceolate, slightly serrate, triply nerved, villous: calyx naked; stem herbaceous.
Alps. *Jacq. Austr.* t. 370. *Mich. flor.* 12. t. 3. 4.
- gradiflorum*. Leaves alternate, lanceolate, slightly denticulate, glabrous: calyx naked: stem herbaceous.
Alps. *Mich. flor.* 12. t. 5. *Moris, sect.* 6. t. 7. f. 52.
- speciosissimum*. Leaves alternate, clasping, ovate, naked, serrate, slightly ciliate: stem 1-flowered.
About Brixen. *Ard. spec.* 1. t. 12? Calyx-leaves obtuse,
- cordifolium*. Leaves alternate; lower-ones petioled, heart-shaped, doubly serrate; upper-ones sessile, ovate, serrate: stems herbaceous.
Hungary. *Waldst. Kit. Hung.* 2. t. 113. *Schreb. deci* t. 6.

ORDER III. POLYGAMIA FRUSTRANEA.

1569. HELIANTHUS. *Receptacle* chaffy, flat: seeds crowned with 2 lanceolate chaffy leaves: calyx imbricate, spreading at the top. Sun-flower.

- annuus*. All the leaves heart-shaped, 3-nerved: peduncles thickened: flowers drooping.
Peru, Mexico. *Mill. illust.* t. *Moris. s.* 6. t. 6. f. 36.
- indicus*. All the leaves heart-shaped, 3-nerved: peduncles equal: calyx leafy.
Egypt. *Calyx-scales* growing into pendulous leaves.

tubæformis. Leaves hearted, wedge-shaped at the base, villous, triply nerved: peduncles thickened, hollow.

Mexico. *Jacq. Schænb.* 3. t. 375. Leaves soft.

quinquedatus. Leaves hearted, wedge-shaped at the base, a little hoary, triply nerved: peduncles 2-flowered: flowers 5-rayed: stem shrubby.

Mexico. *Cavan. ic.* 3. t. 272. Leaves minutely serrate.

dentatus. Leaves ovate, pointed, tapering to the base, unequally serrate, rough: peduncles filiform: florets of the ray obovate.

Mexico. *Cavan. ic.* 3. t. 220. Leaves coarsely serrate.

multiflorus. Leaves triply nerved, rough; lower-ones hearted; upper-ones ovate: ray many-flowered: calyx-scales lanceolate.

Virginia. *Curt. Mag.* t. 227. *Pluk. phyt.* 159. f. 2.

tuberosus. Leaves triply nerved, rough; lower-ones heart-ovate; upper-ones ovate, pointed, alternate: petioles ciliate at the base.

Brazil. *Jacq. hort.* t. 161. *Giseck. ic. fasc.* 1. t. 19.

pubescens. Leaves nearly sessile, heart-ovate, triply nerved, clasping, with appressed serratures, pubescent: calyx-scales lanceolate, villous.

North America. *Upper-leaves* very entire.

mollis. Leaves ovate, pointed, triply nerved, with appressed serratures, rough above, hoary-pubescent and very soft underneath.

North America. *Leaves* very rough above.

trachelifolius. Leaves ovate-lanceolate, pointed, serrate, triply nerved, very rough both sides: calyx-scales linear-lanceolate, ciliate; the outer-ones longer.

North America. *Willd.* 3. p. 2241.

decapetalus. Leaves ovate, pointed, remotely serrate, triply nerved, rough: calyx-scales lanceolate, nearly equal, slightly ciliate: florets of the ray 10 or 12.

Canada. *Stem* rough above: *leaves* ciliate at the base.

frondosus. Calyx spreading every way, undulate, frondose: ray 8-petalled: leaves ovate: stem glabrous below.

Canada. *Flowers* erect: *leaves* sharply serrate.

strumosus. Leaves ovate, pointed, serrate, triply nerved, rough underneath: calyx-scales linear-lanceolate, ciliate at the base.

Canada. *Bocc. Sic.* t. 27. f. 4. *Chrysanthemum*.

- prostratus*. Leaves lanceolate, pointed rough, ferrate, triply nerved ; upper-ones very entire: calyx-scales lanceolate, ciliate: stem procumbent.
North America. *Willd 3. p. 2242*. Stem prostrate.
- giganteus*. Leaves alternate, lanceolate, ferrate, rough, obscurely triply nerved, tapering to both ends, nearly sessile, ciliate at the base: calyx-scales lanceolate, ciliate.
Virginia. *Moris. sect. 6. t. 7. f. 66. Pluk. alm. 1. 159. f. 5.*
Stem green, bristly: flowers of the ray more than 20,
- altissimus*. Leaves alternate, lanceolate, ferrate, rough, triply nerved, tapering to the top, on ciliate petioles: calyx-scales lanceolate, ciliate.
Pennsylvania. *Jacq. hort. t. 160. Moris. sect. 6. t. 7. f. 67.*
Florets of the ray about 16: chaff green.
- excelsus*. Leaves alternate, lanceolate, ferrate, rough, triply nerved, tapering to both ends, nearly sessile, woolly at the base. calyx-scales oblong-ovate: stem with 2 opposite villous lines.
Mexico. *Cavan. ic. 3. t. 219*. Leaves ferrate at top.
- linearis*. Leaves alternate, linear-lanceolate, rough, nearly sessile, very entire, veined: calyx squarrous: stem shrubby.
Mexico. *Cavan. ic. 3. tab. 218.*
- angustifolius*. Leaves alternate, linear-pointed, rough, revolute at the margin, pale underneath.
Virginia, Florida. Stem purplish: disk brown.
- divaricatus*. Leaves opposite, sessile, ovate-oblong, 3-nerved: panicle forked.
North America. *Moris. 3. sect. 6. t. 7. f. 66.*
- atrorubens*. Leaves opposite, spatulate, crenate, triply nerved, rough: calyx-scales erect, as long as the disk.
Virginia. *Dill. Elth. t. 94 f. 110. Mart. cent. t. 20.*
- 1570, GALARDIA. Receptacle chaffy, hemispherical: seeds crowned with a many-leaved chaff: calyx imbricate, many-leaved, flat: florets of the ray 3-parted.
- bicolor*. Stem branched: leaves lanceolate: chaff of the seeds very entire, awned.
America. *Lamarck. illust. t. 708*. Leaves villous, obtuse.
- frimbriata*. Stem quite simple, 1-flowered: root-leaves obovate; stem-leaves linear: chaff of the seeds jagged.
America. *Michaux. Amer. 2. p. 153*. Chaff fringed.

1571. TITHONIA. *Receptacle* chaffy; convex :
seeds crowned with a 5-leaved chaff : *calyx* many-
 leaved, cylindrical : *florets* of the ray 3-toothed.

ragetiflora. Tithonia.

Vera Cruz. *Desf. ann. mus. Par. 1. t. 4. Lam. illust. t. 708.*

Stem erect, branched: *leaves* pubescent; lower-ones ovate, taper-
 ing to the base, 3-lobed, toothed; upper-ones ovate, hearted;
 toothed: *flowers* solitary.

- 1572 RUDBECKIA. *Receptacle* chaffy, conic :
seeds crowned with a 4-toothed margin: *calyx* a
 double row of scales.

laciniata. Root-leaves pinnate, leaflets ovate unequal at the base about
 3-lobed toothed; stem-leaves 3-parted and undivided
 oblong toothed: crown of the seeds 4 toothed.

Virginia. *Moris. sect. 6. t. 6. f. 53. Corn. Canad. t. 179.*

digitata. Root-leaves pinnate, leaflets sessile lanceolate toothed
 slightly cut, the uppermost lanceolate; stem-leaves
 ternate, with the middle division 3-parted or undivided,
 lanceolate; toothed: crown of the seeds entire.

North America. *Moris. sect. 6. t. 6. f. 54.*

trilobai. Leaves spatulate; lower ones 3-lobed, upper-ones undivided:
 Virginia. *Pluk. alm. t. 122. f. 2.*

hirta. Leaves undivided, spatulate-ovate, triply nerved, ferrate;
 hairy: receptacle conic; chaff lanceolate.

Virginia. *Dill. Elsb. t. 218. f. 285. Pluk. alm. t. 242. f. 2.*

fulgida. Leaves oblong-lanceolate, denticulate, bristly, narrowed and
 somewhat hearted at the base: receptacle hemisphæri-
 cal; chaff lanceolate.

Pennsylvania, Carolina. *Ait. kew. 3. p. 251.*

spathulata. Leaves obovate, very entire: stem 1-flowered: florets of the
 ray 3-toothed.

Carolina. *Willd. 3. p. 2249. Michaux. Amer. 2. p. 144.*

amplexifolia Leaves oblong-lanceolate, hearted, clasping; lower-ones
 ferrate: disk cylindrico-conic.

Mexico. *Jacq. rar. 3. t. 592. Cavan. ic. 2. t. 251.*

purpurea. Leaves lance-ovate, alternate, undivided: petals of the ray
 cloven.

North America. *Curt. Maz. t. 2. Mill. fig. t. 224. f. 1.*

angustifolia. Leaves opposite, linear, very entire.

Virginia. *Mill. fig. tab. 224. f. 2.* Seeds without crown.

1573. COSMEA. *Receptacle* chaffy: *seeds* 4-sided with a 2 or 4-awned crown: *calyx* double, each of them of one 8-parted leaf.

sulphurea. Leaves doubly pinnate, with filiform leaflets: divisions of the outer-calyx lanceolate.

Mexico. *Cavan. ic. 1. t. 79. Jacq. ic. 3. t. 595.*

parviflora. Leaves doubly pinnate, with filiform leaflets: divisions of the outer-calyx lanceolate.

Mexico. *Jacq. hort. Schænb. 3. p. 65. t. 374.* Coreopsis.

bipinnata. Leaves doubly pinnate, with linear-subulate leaflets: divisions of the outer-calyx ovate.

Mexico, *Cavan. ic. 1. p. 10. t. 14.* Cosmos.

1574. COREOPSIS. *Receptacle* chaffy: *seeds* compressed, emarginate, with a 2-horned crown: *calyx* double, each of them many-leaved.

serulifolia. Leaves doubly pinnate; segments linear-lanceolate, with ribs as wide as themselves.

Mexico. *Jacq. Schænb. 3. t. 373.* Outer-calyx reflected.

verticillata. Leaves pinnate in whorls threes or fives; divisions linear, 3-parted and undivided: disk differently coloured.

Virginia. *Curt. Magz. t. 156. Ebrt. pict. t. 9. fig. 1.*

tenuifolia. Leaves pinnate in whorls threes and fives; divisions linear, 3-parted and undivided: disk the colour of the ray.

Carolina. *Pluk. mant. t. 344. f. 4.* Chrysanthemum.

coronata. Leaves pinnate, ferrate, lineate, glabrous.

East Indies. *Plum. ic. 53. f. 2.* Ray 8-petalled.

trichosperma. Leaves pinnate, lanceolate, ferrate, glabrous: leaflets of the outer-calyx ciliate with ferratures.

Carolina. *Willd. 3. p. 2252. Mich. Amer. 2. p. 139.*

aristata. Leaves pinnate, ferrate, pubescent: awns of the seeds divaricate.

North America. *Willd. 3. p. 2253. Mich. Amer. 2. 140.*

mitis. Lower-leaves doubly pinnatifid; upper-ones linear-3-parted: seeds naked.

Carolina. *Willd. 3. p. 2253. Mich. Amer. 2. p. 140.*

1578. *SCLEROCARPUS*. *Receptacle* chaffy :
down ○ : *calyx* double, each of them 3-leaved.

africanus. *Sclerocarpus*.

Guinea. *Jacq. ic. rar.* 1. t. 176. *Act. Helv.* 9. t. 2. f. 1.

Stem erect, branched, bristly: *leaves* petioled, alternate, bristly, ovate, coarsely toothed: *flowers* terminal, solitary, sessile, yellow.

1579. *DIDELTA*. *Receptacle* bristly: *seeds* crowned with many-leaved chaff: *calyx* double; the outer about 3-leaved; inner many-leaved.

carnosa. Leaves alternate, lance-oblong, fleshy.

The Cape. *L'Herit. stirp.* 55. t. 28. *Calyx* 3-rowed.

spinosa. Leaves opposite, somewhat clasping, ovate.

The Cape. *Wendl. obs.* 1. 4. f. 32. Outer-*calyx* 5-leaved.

1580. *MUSSINIA*. *Receptacle* villous: down simple: *florets* of the ray ligulate: *calyx* 1-leaved, cylindrical, toothed.

linearis. Leaves linear, glabrous, ciliate-toothed at the base: scape 1-flowered.

The Cape. *Act. Haf.* 4. t. 1. *Calyx*-teeth very long,

uniflora. Leaves oblong-spatulate, very entire, downy underneath: stem decumbent: peduncles 1-flowered.

The Cape. *Act. Haf.* 4. t. 3. *Calyx* campanulate downy.

speciosa. Leaves pinnatifid and undivided, downy underneath, with linear-lanceolate segments: scape 1-flowered: *calyx* pubescent.

The Cape. *Act. Haf.* 4. t. 4. f. 1. Root fibrous.

incisa. Leaves pinnatifid and undivided, hairy, downy underneath: scape 1-flowered, as long as the leaves: *calyx* glabrous.

The Cape. *Leaflets* ovate-oblong: *petioles* clasping.

obovata. Leaves pinnatifid, glabrous: scape 1-flowered: *calyx* turbinate.

The Cape. *Act. Haf.* 4. t. 4. f. 2. *Gorteria*.

pinnata. Leaves pinnate, villous, white-downy underneath; leaflets elliptic, the terminal-one larger and somewhat divided: scape 1-flowered: *calyx* villous.

The Cape. *Act. Haf.* 3. t. 5. *Gorteria*.

1581. GORTERIA. *Receptacle* naked: *down* woolly: *florets* of the ray ligulate: *calyx* 1-leaved, clothed with imbricate scales.

personata, Leaves bristly, white-downy underneath, oblong, tapering to the base, sinuate-toothed and entire: stems diffuse, ascending: calyx cylindrical.

The Cape. *Jacq. collect.* 4. t. 21. f. 1. *Pluk. phyt.* 273. f. 6.

diffusa, Leaves lance-spatulate, obtuse, very entire, hairy, downy underneath: stem erect, divaricate, branched.

The Cape. *Act. Haf.* 4. t. 2. f. 1. Calyx white-hairy.

integrifolia, Leaves linear lanceolate, hairy, very entire, downy underneath: flowers terminal, solitary, sessile: stem shrubby, erect, branched.

The Cape *Act. Haf.* 4. t. 2. f. 2. Calyx white-hairy.

rigens, Leaves lance-spatulate, pinnatifid and very entire, white-downy underneath: peduncles 1-flowered, terminal: stems somewhat shrubby, decumbent.

The Cape. *Curt. Mag.* t. 90. *Mill. fig.* t. 49.

pedinata, Stemless: leaves pinnate; leaflets distant, linear, downy underneath: scape 1-flowered, longer than the leaves.

The Cape. *Act. Haf.* 4. t. 1. f. 1.

cernua, Leaves lanceolate, clasping, spinous-toothed, nearly glabrous: peduncles 1-flowered, terminal: flowers drooping: stem somewhat shrubby, with ascending branches.

The Cape. *Calyx-scales* spinous at top.

ciliata, Leaves linear-lanceolate, spinous-ciliate, downy underneath: flower terminal, sessile: stem shrubby, branched, erect.

The Cape. *Act. Haf.* 4. t. 6. Spines of the leaves yellow.

1582. BERCKHEYA. *Receptacle* chaffy: *seeds* hairy, crowned with chaff: *calyx* imbricate: *florets* of the ray hermaphrodite, with the stamina castrate.

incana, Leaves alternate, ovate, spinous-toothed, triply nerved, reticulate, hoary-villous underneath: calyx-scales tooth-spinous, villous.

The Cape. *Act. Haf.* 3. t. 11. *Jacq. rar.* 3. 591. Gorteria.

obovata, Leaves opposite, oblong-lanceolate tapering to the base, spinous-toothed, glabrous: calyx-leaves ciliate with spines.

The Cape, *Houtt. Linn. syst.* 4. t. 34. f. 2. Basteria.

- lanceolata.* Leaves linear-lanceolate, remotely spinous-ciliate, revolute at the margin, downy underneath: calyx-leaves ciliate with spines.
The Cape. *Act. Haf.* 3. t. 4. *Hort. Syst.* 9. t. 67. f. 1.
- cuneata.* Leaves alternate, oblong, wedge-form, spinous-toothed, villous both sides: calyx-leaves tooth-spinous.
The Cape. *Act. Haf.* 3. t. 10. Rohria.
- spinosissima.* Leaves opposite, united, ovate, unequally tooth-spinous, villous underneath: calyx-leaves tooth-spinous.
The Cape. *Act. Haf.* 3. p. 108. t. 13. Rohria.
- palmata.* Leaves alternate, lanceolate, pinnatifid, downy underneath; segments very entire, spinous at top: calyx-leaves 3 or 5-cleft.
The Cape. *Act. Haf.* 3. p. 108. t. 13. Rohria.
- grandiflora.* Leaves opposite, lanceolate, 3-nerved, spinous-toothed, downy underneath: calyx-leaves spinous toothed.
The Cape. *Vahl. act. Haf.* 2. p. 40. t. 7. Rohria.
- fulcata.* Leaves lanceolate, spinous-ciliate, imbricate, with a single groove underneath, glabrous.
The Cape, *Jacq. Schänb.* 3. p. 64. t. 372. Gorteria.
- bisulca.* Leaves lanceolate, spinous-ciliate, 2 grooved underneath, glabrous.
The Cape. *Thunb. prodr.* 139.
- pectinata.* Leaves lanceolate, spinous ciliate, hairy.
The Cape. *Thunb. prodr.* 139.
- mutula.* Leaves lanceolate, spinous ciliate, spreading, downy underneath.
The Cape. *Thunb. prodr.* 139.
- squarrosa.* Leaves alternate, lance-subulate, recurved, nearly glabrous, spinous-ciliate, decumbent at the base: calyx-leaves spinous-ciliate: flowers sessile.
The Cape. *Act. Haf.* p. 100. t. 5. Rohria.
- setosa.* Leaves alternate, oblong, recurved, glabrous, ciliate-spinous: calyx-leaves ciliate: flowers peduncled.
The Cape. *Comm Hort.* 2. t. 28. Stem glabrous.
- ciliaris.* Leaves ovate, glabrous, imbricate, ciliate-spinous on the margin and midrib, with a reflected spine at top.
The Cape. *Burm. Afr.* t. 54. f. 1. *Pluk. amaltb.* t. 354. f. 3.

- hispida.* Leaves alternate, oblong-lanceolate, glabrous, spinous-ciliate: flowers terminal, sessile.
The Cape. *Act. Haf.* 3. p. 101. t. 6. Rohria.
- unilora.* Leaves alternate, lanceolate, spinous-toothed, downy underneath: stem herbaceous, 1-flowered: calyx scales lanceolate, spinous-ferrate, nearly as long as the ray.
The Cape. *Act. Haf.* 3. p. 102. t. 7. Rohria.
- cartamo-ides.* Leaves alternate, oblong-lanceolate, spinous-toothed, downy underneath: calyx-leaves ovate, ferrate.
The Cape. *Act. Haf.* 2. t. 6. 3. t. 8. Rohria.
- carlinoides.* Leaves alternate, oblong, spinous-toothed, downy underneath: calyx-leaves oblong, sinuate, spinous ciliate.
The Cape. *Gorteria barbata.* Linn. *supl.* 382.
- cynarioides.* Stem-leaves alternate, clasping, spinous-ciliate; radical-ones very entire, unarmed: calyx-leaves very entire.
The Cape. *Calyx-leaves* spinous at top: *flower* sessile.
- pungens.* Leaves oblong, villous, spinous ciliate: calyx-leaves lanceolate, spinous ciliate.
The Cape. *Thunb. prodr.* 145.
- cruciata.* Leaves alternate, ovate, hearted, clasping, glabrous, reticulate with veins, sinuate, with spinous teeth.
The Cape. *Houtt. Linn. syst.* 10. t. 70. f. 1. Gorteria.
- decurrent.* Leaves alternate, pinnatifid, decurrent, spinous toothed, villous underneath.
The Cape. *Act. Haf.* 3. p. 104. t. 9. Rohria.
1583. ZOEGERA. Receptacle bristly: down bristle-like: *florets* of the ray ligulate: calyx imbricate.
- Leptaurea.* Zoegea.
The East. *L'Herit. stirp.* t. 29. *Jacq. ic.* 1. t. 177.
Stem diffuse, branched: leaves lanceolate, sessile, entire, rough; lower-ones pinnatifid: peduncles 1-flowered: calyx scales ciliate.
1584. CENTAUREA. Receptacle bristly: down simple: *florets* the ray, funnel-form, irregular, longer than those of the disk, or o. *Knappweed.*
A. Calyx smooth, unarmed. Jacca.
- Crupino.* Calyx-scales lanceolate: leaves pinnate, rough; leaflets serrulate, linear, acute.
Europe, Africa. *Col. ecphr.* 1. t. 34. Ray 5-flowered.

- cuprinoides*. Leaves pinnate; leaflets lanceolate, glabrous, obtuse, toothed; seeds crowned with silvery chaff.
Barbary. *Desfont Atl.* 2. p. 293. Florets saffron.
- arenaria*. Calyx-scales lanceolate: lower-leaves pinnate; leaflets linear, very entire; upper-leaves linear, simple.
Near the Volga. *Willd.* 3. p. 2278. Stem angular.
- glauca*. Calyx-scales pubescent, roundish, obtuse: leaves deeply pinnatifid, glaucous; the lowest segments toothed.
Caucasus. *Willd.* 3. p. 2278. Florets purple.
- moschata*. Calyx-scales pubescent, roundish, rather obtuse: leaves slightly pinnatifid; lowest segments nearly entire.
Greece. *Knorr. del.* 2. t. C. 4 f. 2: *Moris. sect.* 7. t. 25 f. 5.
- suaveolens*. Calyx-scales glabrous, roundish-ovate, rather obtuse, spha-
celate at top: leaves lyre-pinnatifid.
Levant. *Knorr. del.* 2. t. C. 4 f. 1. *Moris. f.* 7. t. 25, f. 9.
- verbasifolia*. Leaves elliptic, downy: stem shrubby.
Arabia felix. *Vahl. Jymb.* 1. p. 75. Leaves denticulate.
- erucifolia*. Calyx-scales lanceolate: leaves lanceolate, slightly toothed,
woolly.
— *Pluk. phyt.* 39. f. 3. Bad.
- Lippii*. Calyx-scales mucronate: leaves somewhat decurrent, lyre-
toothed.
Egypt, Barbary. *Ins. act.* 1719. p. 169. t. 10.
- africana*. Calyx-scales oblong, obtuse: leaves pinnate, glabrous;
leaflets pinnatifid, pointed, slightly ferrate at top.
Barbary. *Desfont Atl.* 2. p. 294.
- alpina*. Calyx-scales ovate, obtuse: leaves pinnate, glabrous; leaflets
obscurely ferrate at top, entire, the middle-ones 2-
parted.
Alps. *Moris. sect.* 7. t. 25. f. 5. *Corn. canad.* t. 70.
- Centaureum*. Calyx-scales ovate, obtuse: leaves pinnate, glabrous; leaflets
sharply and doubly ferrate, decurrent, the terminal-one
lanceolate.
Alps. *Blackw. t.* 93. *Baubin. pin.* 117.
- ruthenica*. Calyx-scales ovate, obtuse: leaves pinnate, glabrous; leaflets
sharply cartilaginous-ferrate, decurrent, the terminal-
one oblong-ovate.
Siberia, *Gmel. Sib.* 2. p. 89. t. 41. Flowers pale sulphur.

- nana.* Stemless: calyx-scales ovate, rather acute: leaves lyrate, toothed, glabrous.
Barbary. *Desfont Atl.* 2. t. 241. Leaflets ovate, toothed.
B. Scales of the calyx setaceous-ciliate. Cyanoides.
- phrygia.* Fringe of the calyx recurved: leaves oblong, undivided, rough, with mucronate slight serratures.
South of Europe. *Flor. Dan.* t. 520. *Gmel. it.* 1. t. 23.
The fringe of the calyx is erect after showers.
- alicifolia.* Calyx turbinate, with recurved fringe: leaves oblong, undivided, rough, with mucronate slight serratures: stem simple
Caucasus. *Willd.* 3. p. 2283. Stem woolly above.
- austriaca.* Fringe of the calyx recurved: leaves ovate, rough, undivided, coarsely toothed.
Austria, Hungary. *Willd.* 3. p. 2283.
- pinata.* Calyx-fringe recurved: leaves with mucronate serratures; lower-ones sinuate-pinnatifid; upper-ones and those of the branches undivided.
France, Hungary. *Floral-leaves* pubescent.
- capillata.* Calyx-fringe recurved: lowest-leaves pinnate, toothed; uppermost lanceolate.
Siberia. *Act. Goett.* 1. p. 202, t. 6.
- involuta.* Calyx with recurved fringe, leafy at the base: leaves denticulate; radical-ones pinnatifid; those of the stem lanceolate, petioled.
Barbary, *Desfont Atl.* 2. p. 295. Leaves pubescent.
- uniiflora.* Calyx-fringe recurved: leaves lanceolate, slightly toothed, downy.
Alps. *Bocc. Mus.* 2. p. 20. tab. 2.
- ajaculosa.* Calyx-fringe recurved: flowers without ray: leaves hairy, lanceolate, remotely toothed.
Italy. *Willd.* 3. p. 2285. Stem hairy.
- trichophala.* Calyx-scales pubescent, with recurved fringe: leaves linear-lanceolate, very entire, rough: stem rough.
Siberia. *Gmel. Sib.* 2. p. 100. tab. 45. f. 1. 2.
- linifolia.* Calyx-scales glabrous, with recurved fringe: leaves linear, very entire, hairy: stem hairy.
Spain, Italy. *Calyx-scales* with a reflected fringed point.
- hypophifolia.* Calyx-scales pubescent, with recurved fringe: flowers without ray: leaves linear, entire, rough: stems shrubby.
Spain. *Barr. ic.* 306. Leaves tessile.

corenopsisifolia Calyx-fringe erect: flowers without ray: leaves very entire; lower-ones pinnatifid; upper-ones linear: stem panicle.

Armenia. *Lamarck. encycl.* 1. p. 660. Leaves hairy.

* *nigra*. Calyx-fringe erect: flowers mostly without ray: leaves oblong; lower-ones lyre angular, upper-ones undivided. Pastures. *Eng. Bot.* t. 278 *Mart. flor. rust.* t. 130.

C. *Calyx-scales ciliate-ferrate*. Cyanus.

nigrescens. Inmost calyx scales scarious: root-leaves obscurely pinnatifid; lower stem-leaves slightly toothed at the base; upper-ones undivided and very entire.

Austria. *Willd.* 3. p. 2288. Flowers radiate.

Triumfetti. Leaves sessile, downy, lanceolate, sinuate-pinnatifid. Mount Cenis. *Allion. Ped.* n. 579. Stem branched

cheiranthifolia. Leaves downy; radical-ones pinnate: stem-leaves sessile, linear, slightly toothed: stem 1-flowered.

Armenia. *Willd. phyt.* 12. t. 7. f. 2. Corol yellow.

ochroleuca. Leaves oblong, ferrate, decurrent, undivided.

Alps. *Willd.* 3 p. 2289. Flowers pale yellow.

strata. Calyx-scales sphacelate: leaves lanceolate, sessile, glabrous toothed.

Armenia. *Willd.* 3. p. 2290. Leaves not decurrent.

axillaris. Leaves hoary, lanceolate, decurrent; lower-ones sinuate-toothed at the base: peduncles axillary and terminal.

South of Europe. *Barr. ic.* 389 Leaves remotely toothed.

montana. Leaves nearly glabrous, lanceolate, decurrent, entire or obscurely toothed: stem simple.

Alps. *Curt. Mag.* t. 77. *Blackw.* t. 66. *Jacq. Aust.* t. 371.

* *Cyanus*. Upper-leaves linear, sessile, very entire; lower-ones lanceolate, toothed. Blue-bottle.

Corn fields. *Eng. Bot.* t. 277. *Curt. Lond. fasc.* 6. t. 62.

virgata. Calyx-scales lanceolate, coloured at top; lower-leaves pinnatifid, linear; upper-ones undivided, linear: branches wand-like.

Armenia. *Lam. encycl.* 1. p. 662. Ray very short.

virina. Calyx-scales ovate-lanceolate, spreading at top: lower leaves doubly-pinnatifid, lance-linear; upper-ones pinnatifid: stem divaricate.

Caucasus. *Willd.* 3. p. 2292. Plant green downy.

- paniculata*. Calyx-scales ovate, appressed: lower-leaves doubly pinnatifid; upper-ones pinnatifid: stem paniced.
South of Europe. *Jacq. Aufl. t. 320. Gmel. Sib. 2. t. 43.*
- spinosa*. Root-leaves undivided and pinnatifid, glabrous: stem-leaves pinnatifid, downy; those of the branches spinous.
Crete. *Alp. exot. t. 162.*
- ragulina*. Leaves downy, pinnatifid, with obtuse ovate segments, the outer of which are larger.
Crete. *Curt. Mag. 494. Mill fig. t. 152. f. 1.* Plant glaucous.
- Cineraria*. Leaves doubly pinnatifid, downy both sides, with lanceolate obtuse segments.
Italy. *Moris. sect. 7. t. 26. f. 20.* Leaves white-downy.
- cinerea*. Leaves somewhat downy; radical-ones pinnatifid, with lanceolate obtuse segments; upper-ones somewhat pinnatifid downwards at the base.
Italy. *Jacq. hort. t. 92.* Leaves nearly glabrous above.
- dealbata*. Leaves downy underneath; radical-ones doubly pinnatifid, with lanceolate acute segments; stem-leaves pinnatifid.
Siberia. *Willd. 3. p. 2295.* Flower large, purple.
- argentea*. Leaves downy; radical-ones pinnate, the leaflets with a single lobe.
Crete. *Barr. ic. 218.* Leaves white: flowers yellow.
- semper-virens*. Leaves lanceolate, serrate, somewhat stipuled at the lowest tooth; lower-ones halbert-shaped.
Portugal. *Bocc. sic. t. 39. f. 3.* Flowers without ray.
- coriacea*. Calyx glabrous: leaves pinnatifid, rough, with oblong-lanceolate acute segments; the upper-most of the radical-ones somewhat cut at the base.
Hungary. *Waldst. Kitaib. pl. Hung.*
- * *Scabiosa*. Calyx pubescent: leaves pinnatifid, roughish; segments lanceolate, acute, pinnatifid at the base.
Corn fields. *Engl. Bot. t. 56. Pet. H. Brit. t. 22. f. 7.*
- tatarica*. Leaves rough underneath, pinnatifid, with lanceolate slightly toothed segments.
Tartary. *Calyx-scales yellowish: flowers yellow.*
- Stœbe*. Calyx oblong: leaves pinnatifid, linear, very entire.
Austria? *Bauh. pin. 273* Stœbe incana

D. Calyx-scales dry, scarious, ciliate serrate.

pulcherima. Calyx-scales ovate, pointed: leaves hoary underneath; radical-ones pinnatifid: stem leaves lanceolate.

Levant. *Willd.* 3. p. 2298. Flowers purple.

Balsamita. Calyx-scales ovate, awned: leaves oblong, undivided, nearly entire, rough, mucronate.

Armenia. *Lam. encycl.* 1. p. 660. Flowers floscular.

macrocephala. Calyx-scales roundish-ovate: leaves oblong-lanceolate, undivided, very rough, acute, ferrate.

Siberia. *Willd.* 3. p. 2298. Flowers floscular.

atropurpurea. Calyx-scales ovate-lanceolate: leaves doubly pinnatifid, with lanceolate segments.

Hungary. *Waldst. Kitaib. Hung.* 2. t. 116.

orientalis. Lower stem-leaves pinnatifid, very entire, uppermost lanceolate, obtuse, mucronate.

Siberia. *Caly-leaves* ending in an ovate rusty scale.

sibirica. Calyx-scales ovate, obtuse: leaves downy both sides, pinnatifid and undivided: stem declined.

Siberia. *Gmel. Sib.* 2. tab. 42. f. 2. Calyx swelling.

sessilis. Stemless: calyx-scales oblong: leaves pinnatifid, hoary: flower sessile.

Armenia. *Willd.* 3. p. 2300. All the leaves pinnatifid.

elongata. Leaves rough on the margin; radical-ones oblong, toothed; stem leaves lanceolate, slightly decurrent, very entire.

Barbary. *Schouß. Marocc.* p. 199. Corol violet.

alata. Radical-leaves lyrate; stem-leaves lanceolate, very entire, semidecurrent.

Tartary. *Lower-calyx-scales* naked; upper-ones with a scarious scale at top: *flowers* yellow, without ray.

trinervia. Leaves linear, downy, 3-nerved, very entire: stem erect.

Siberia. *Willd.* 3. p. 2301. Corol purple.

E. *Calyx-scales* dry, scarious, entire or jagged.

Beben. Calyx conic, with entire scales: leaves coriaceous, reticulate with veins; radical ones lyrate; stem-leaves oblong, decurrently clasping.

Asia. *Rauw. it.* t. 288. *Baub. list.* 3. t. 37.

repens. Leaves lanceolate, slightly petioled, toothed: peduncles filiform, leafless.

Levant. *Leaves* rough on the edge: *calyx-scales* entire.

- Picris*, Calyx cylindrical, with rounded entire scales; leaves lanceolate; lower-ones slightly toothed at the base; stem panicled: branches leafy, 1-flowered.
Caspian shores. *Willd. 3. p. 2302.* Corol purple.
- Jacea* Calyx-scales ovate, jagged at top: leaves lanceolate, very entire: radical-ones slightly toothed: branches angular.
Europe. *Flor. Dan. t. 519.* Seeds naked.
- amara*, Stems decumbent: leaves lanceolate, very entire.
Italy, Montpellier. *Bocc. Mus. t. 17. Lob. ic. 548.*
- alba*, Calyx-scales entire, mucronate: leaves pinnatifid, toothed; stem-leaves linear, toothed at the base.
Spain, Switzerland. *Calyx-scales* lax, snowy.
- splendens*, Calyx ovate, with mucronate scales; lower-leaves doubly pinnatifid, linear; upper-ones pinnate, with linear slightly toothed leaflets.
South of Europe. *Calyx-scales* silvery.
- nitens*, Calyx cylindrical, with mucronate scales: leaves pinnate; leaflets linear, mucronate, very entire.
Caucasus. *Buxb. cent. 2. t. 15. f. 1.* Branches leafy.
- tagana*, Calyx-scales roundish, very entire: leaves oblong, glabrous; radical-ones ferrate; stem-leaves cut at the base.
Portugal. *Brot. phytog. Lusit p. 13. tab. 3.*
- Rhapontica*, Calyx-scales ovate, jagged: leaves ovate-oblong, denticulate, downy underneath.
Alps. *Root-leaves* lyrate: *stem-leaves* pinnatifid.
- babylonica*, Leaves somewhat downy, decurrent, undivided; radical-ones lyrate.
Levant. *Aip. exot. t. 282.* Flowers yellow.
- glabifolia*, Leaves undivided, very entire, decurrent.
Siberia. *Curt. Mogaz. t. 62. Comm. rar. t. 39.*
- conifera*, Leaves downy; radical-ones lanceolate; stem-leaves pinnatifid: stem simple.
South of France. *Mill. fig. t. 153.* Down feathery.
F. *Calyx-scales* with a tuft of spines or a palmate spine at top. *Stœbe.*
- sonchifolia*, Calyx palmate-spinous, spines reflected: leaves oblong, nearly glabrous, clasping, semidecurrent, repand-toothed; the teeth spinous.
South of Europe. *Herm. Lugdb. t. 675. Pluk. phyt. t. 39. f. 1.*

- Seridis*. Calyx palmate-spinous, spines reflected: leaves oblong, hoary, clasping, semidecurrent, toothed, a little cut at the base; the teeth spinous.
Spain. *Pluk. phyt. t. 38. f. 1.* Plant downy.
- romana*. Calyx palmate-spinous, spines reflected: leaves lanceolate, sessile, decurrent, hairy and rough, unarmed, denticulate; radical-ones lyrate.
Roman territories, *Barr. rar. 87. tab. 504.*
- ferox*. Calyx palmate-spinous, spines reflected: leaves hoary oblong, sessile, decurrent, pinnatifid, with unarmed teeth.
Barbary. *Desfont. Atl. 2. p. 297 tab. 242.*
- * *solstitialis* Calyx solitary, palmate-spinous, spines straight: leaves a little hoary, linear lanceolate, decurrent, very entire; radical-ones lyre-pinnatifid.
Hedges. *Engl. Bot. t. 243. Pet. II. Brit. t. 22. f. 7.*
- melitenfis*. Calyx mostly in pairs, sessile, palmate-spinous, spines straight: leaves lanceolate, rough, decurrent; lower-ones slightly toothed; radical-ones sinuate.
Malta. *Bocc Sic. t. 35.* Flowers 2 or 3 together.
- Adami*. Calyx solitary, palmate-spinous, spines straight; the inmost scales scarious at top: leaves downy, lanceolate, decurrent; lowermost denticulate, pinnatifid at the base.
Iberia; *Willd. 3. p. 2310* Ray shorter than the disk.
- ficula*. Calyx palmate-spinous, spines spreading: leaves rough; stem-leaves lanceolate, decurrently denticulate at the base; radical-ones lyrate.
Sicily *Moris. hist. 3. sect. 7. tab. 28. f. 26.*
- sphærocephala*. Calyx palmate-spinous: leaves clasping, bristly, oblong, toothed; lower-ones pinnatifid.
South of Europe: *Herm. Lugab. t. 333. Moris. 7. t. 27. f. 9.*
- * *Isnardi*. Calyx solitary, sessile, palmate-spinous: leaves lanceolate, somewhat clasping, pinnatifid-toothed.
Jersey. *Isn. act. Par. 1719. ed. germ. 378. t. 19.*
- polyacantha* Calyx palmate-spinous: leaves clasping, runcinate-pinnatifid, with spinulous teeth; radical-ones lyrate.
— *Willd. 3. p. 2312.* Ray as long again as the disk.
- framinea*. Calyx palmate-spinous, terminal, sessile, clustered: leaves petioled, pinnatifid, cut-toothed.
Egypt. *Willd. Berol. t. 26. Ventex. hort. Cels. t. 16.*

pullata. Calyx palmate-spinous; spines setaceous: bractes lanceolate, involucred: leaves petioled, clasping, lyrate, bristly.

South of Europe. *Mill. fig. t. 152. f. 2. Moris. 7. t. 26. f. 14.*

napiifolia. Calyx palmate-spinous: stem-leaves lanceolate, toothed, decurrent; radical-ones lyrate, obtuse.

Barbary. *Pluk. alm. t. 94 f. 2. Moris. s. 7. t. 26. f. 20.*

heterophylla Calyx palmate spinous, with a tricuspidate spine: stem-leaves linear-filiform, very entire; radical-ones lanceolate, toothed towards the base.

Spain. *Willd. 3 p. 2314.*

aspera. Calyx palmate-spinous, with a tricuspidate spine: leaves lanceolate, sessile, toothed.

South of Europe. *Bocc. Mus. 2. t. 26.*

G. Calyx with compound spines. *Calcitrapa.*

benedicta. Calyx doubly-spined, woolly, involucred: leaves semidecurrent, with spinous teeth. *Blessed thistle.*

Spain, Lemnos. *Woodv. t. 42. Blackw. t. 476.*

apula. Calyx doubly-spined, axillary and terminal: leaves lanceolate, very entire, semidecurrent; radical-ones lyrate.

Barbary. *Desf. atl. 2. p. 300.* Plant pubescent.

eriphora. Calyx doubly spined, woolly: leaves semidecurrent, entire and sinuate: stem proliferous.

Portugal. *Leaves unarmed.*

egyptiaca. Calyx doubly-spined, a little woolly: leaves sessile, lanceolate, entire and toothed: stem proliferous.

Egypt. *Lowest-leaves pinnatifid, middle-ones lyrate.*

**Calcitrapa* Calyx doubly spined, sessile: leaves pinnatifid, linear, toothed: stem much spread, hairy.

Wastes. *Eng. Bot. t. 125. Col. phytob. t. 24.*

calcitrapoides. Calyx doubly-spined: leaves clasping, lanceolate, undivided, ferrate.

Montpelier, Palestine. *Leaves not pinnatifid.*

H. Calyx-ciliate, ending in a spine.

nicaensis. Calyx ciliate and spined at top: leaves oblong, clasping, rough, undivided and entire; radical-ones ovate, toothed.

Nice. *Allion. Ped. t. 74.* Flowers yellow.

- fuscata*. Calyx ciliate and spined at top; branch-leaves pubescent, lanceolate, slightly toothed; stem-leaves lyre-pinnatifid, Barbary. *Desfont. Atl. 2. p. 302. tab. 244.*
- hybrida*. Calyx ciliate and spined at top: leaves hoary, pinnatifid, very entire; uppermost linear-lanceolate. Piedmont *All. Ped. n. 593.* Plant hoary.
- squarrosa*. Calyx ciliate and spined, cylindrical; the scales reflected at top: stem-leaves pinnatifid; branch-leaves linear. The East. *Willd. 3. p. 2319.* Flowers violet.
- parviflora*. Calyx ciliate and spined, ovate, with reflected scales; leaves hoary; radical-ones lyrate: stem-leaves linear. Barbary. *Desfont. Atl. 2. p. 301.* Leaves very narrow.
- cærulea*. Calyx ciliate and spined: stem leaves pinnatifid, linear; branch-leaves linear. Spain. *Cavan. ic. 3. t. 323?* Leaves nearly glabrous.
- jacobæaefolia*. Calyx ciliate and spined; inner-scales scarious: root-leaves deeply pinnatifid, with downy segments: stem nearly naked, 1 flowered. — *Lam. encyclop. 1. p. 668.*
- reflexa*. Calyx ciliate and spined at top; spines of the lower-scales reflected: leaves pinnate, with linear obtuse segments; radical-ones doubly pinnate. Armenia. *Lam. encycl. 1. p. 668.* Flowers yellow.
- annata*. Calyx ciliate and spined; spines of the lower scales reflected: leaves very rough, pinnate, linear, mucronate; radical-ones doubly pinnate. Spain. *Willd. 3. p. 2320.* Leaves hoary.
- eryngioides*. Calyx ciliate and spined: leaves pinnate, with oblong-lanceolate toothed leaflets mucronate at top. Levant. *Lam. encycl. 1. p. 667.* Flowers purple.
- centaurioides*. Calyx ciliate and spinous: leaves lyre pinnate, nearly very entire; the terminal lobe very large and toothed. South of Europe. *Inner calyx-scales unarmed.*
- collina*. Calyx ciliate and spined: stem-leaves pinnatifid; radical-ones doubly pinnatifid; segments linear. South of Europe. *Sp. pl. 1298.*
- vulpestris*. Calyx ciliate and spined: stem-leaves pinnate; radical-ones doubly pinnate; leaflets linear-filiform. Italy. *Col. ecphr. 1. t. 35. f. 2.* Inmost scales scarious.

- pubescens*. Calyx ciliate and spined at top: stem-leaves pinnatifid, linear-lanceolate; radical-ones doubly pinnatifid, with lanceolate segments; the terminal lobe toothed.
 — *Willd.* 3 p. 2322. Stem woolly: flowers yellow.
- sordida*. Calyx ciliate and spined: stem-leaves pinnate, very entire; radical-ones doubly pinnatifid.
 — *Willd.* 3 p. 2323. Flowers dirty purple.

- acaulis*. Calyx ciliate and spined: leaves pubescent, lyrate and undivided: scape 1-flowered.
 Barbary. *Desfont. Atl.* 2. t. 243. *Shaw. Spec.* t. 342.

I. *Spines of calyx-scales simple.*

- Verutum*. Calyx-scales with a very long spine, 2-bristly in the middle: root-leaves sinuate-pinnatifid; stem-leaves lanceolate, very entire, decurrent.
 The East. *Jacq. ic. rar.* 1. t. 178. Florets equal.
- salmantica*. Calyx globular, glabrous, with a small spinous bristle standing out: leaves lanceolate, serrate; radical-ones lyrate: stem divaricate.
 South of Europe. *Jacq. hort.* t. 64. *Moris.* 7. t. 26 f. 14.
- aurea*. Calyx with simple spreading spines: florets equal: leaves hairy; lower-ones pinnatifid.
 South of Europe. *Curt. Mag.* t. 421. Flowers yellow.
- elaboracea*. Calyx with setaceous spines: leaves decurrent, undivided, with spinous serratures.
 Italy. *Till. pis.* 84. tab. 27.
- muricata*. Calyx simply spined: lower-leaves pinnatifid; upper-ones lanceolate peduncles very long.
 Spain. *Sp. pl.* 1299.
- peregrina*. Calyx with setaceous spines: leaves lanceolate, petioled, toothed below.
 South of Europe. *Hort. Cliff.* 423.
- radiata*. Calyx nearly unarmed, slightly awned, radiate: leaves pinnatifid.
 Siberia. *Gmel. Sib.* 2. t. 47 f. 1. Calyx narrow.
- Gracodylium*. Calyx scarious, simply spined; leaves pinnatifid, very entire; the outmost division larger and toothed.
 Syria. *Barr. rar.* tab. 503. Peduncles long, 1-flowered.
- pumila*. Nearly stemless: calyx simply spined; leaves pinnatifid, thick, somewhat downy.
 Egypt. *Ventenat. Malmais.* tab. 9.

tingitana. Calyx spinous on the margin: leaves lanceolate, undivided, with slightly spinous serratures: stem 1-flowered

Tunis. *Herm. Lugdb. tab. 163.* Cnicus.

galatites. Calyx with setaceous spines: leaves decurrent, sinuate, spinous, downy underneath

South of Europe. *Cavan. ic. 3. tab. 231.*

ORDER IV. POLYGAMIA NECESSARIA.

1585. ACICARPHA. *Receptacle* chaffy, the chaff uniting with the seeds after flowering: *down* 0: *seeds* naked: all the *florets* tubular: *calyx* 5-parted.

tribuloides. Acicarpha.

Buenos Ayres. *Juss. ann. mus. nat. 2. p. 348. t. 58. f. 1.*

Stem erect: *leaves* sessile, lanceolate, remotely ferrate: *calyx* 1-leaved: *chaff* involving the seeds after flowering and becoming a prickly fruit.

1586. MILLERIA. *Receptacle* naked: *down* 0: *calyx* 1-leaved, 2 or 3 parted: *florets* half radiate.

quinqueflora Leaves petioled, roundish-ovate, tapering to the base; floral-ones somewhat hearted: peduncles terminal, forked.

Mexico. *Cavan. ic. 1. t. 82. Mart. cent. 1. 41. t. 47. f. 2.*

Floret of the ray solitary, 3-parted; *calyx* 2-valved, contracted:

biflora. Leaves petioled, oblong-ovate, ciliate: peduncles terminal, clustered.

Campechy. *Hort. Cliff. t. 25. Mart. cent. t. 47. f. 1.*

Contrayerba Leaves somewhat petioled, lanceolate, 3-nerved, with mucronate serratures: flowers terminal, fascicled.

Peru. *Cavan. ic. 1. p. 2 tab. 4.* Calyx 3-parted.

angustifolia All the leaves sessile, lanceolate, pointed, 3-nerved, ferrate at top: flowers terminal, nearly in heads.

New Spain. *Cavan. ic. 3. p. 12. tab. 223.*

1587. BALTIMORA. *Receptacle* chaffy: *down* 0: *calyx* cylindrical, many-leaved: *ray* 5-flowered.

recla. Baltimora.

Maryland. *Pluk. mant. 46. tab. 342. f. 3.* Chrysanthemum.

Stem channelled, with rough angles: *leaves* ovate, pointed, ferrate, slightly downy; *panicles* terminal: *flowers* yellow.

1588. SILPHIUM. *Receptacle chaffy: seeds crowned with a 2-awned margin: calyx spreading every way.*

laciniatum. Root and stem-leaves pinnatifid: stem hairy.

America. *Linn. fil. fasc. 1. p. 5. tab. 3.* Calyx spinous.

compositum. Stem-leaves sinuate pinnatifid; radical-ones serrate, sinuate in many divisions: stem smooth.

Carolina. *Mich. Amer. 2. p. 145.*

therebintbinaceum. Leaves alternate, ovate, serrate, rough; radical-ones hearted.

North America. *Jacq. hort. 1. p. 16. tab. 43.*

perfoliatum. Leaves opposite, deltoid, petioled, perfoliate: stem 3-sided, smooth.

North America. *Leaves serrate: calyx obtuse.*

connatum. Leaves opposite, sessile, perfoliate: stem cylindrical, rough.

North America. *Leaves with a concave disk, rough.*

Asteriscus. Leaves opposite or alternate, sessile, oblong, hairy: lower-ones serrate: stem cylindrical, bristly.

Virginia, Carolina. *Dill. Elth. t. 37. f. 42.*

pumilum. Leaves oval, obtuse, lightly toothed, somewhat downy: stem clothed with light down.

Florida. *Michaux. Amer. 2. p. 146.*

integrifolium. Leaves oblong, opposite, sessile, very entire, rough: stem 4-sided, rough.

North America. *Michaux. Amer. 2. p. 146.*

trifoliatum. Stems 6-angled: leaves in threes, ovate, toothed: panicle trichotomous.

Carolina. *Moris. sect. 6. t. 3. f. 68.* Leaves rough.

ternatum. Stems cylindrical: leaves in threes, slightly denticulate: panicle forked.

North America. *Willd 3. p. 2333.* Lower and upper-leaves scattered, middle-ones 3 in a whorl, those of the panicle in pairs and sessile.

atropurpureum. Stems cylindrical: upper-leaves in fours, denticulate: panicle forked.

North America. *Willd 3. p. 2334.* Lowest leaves alternate, the next in threes, upper-ones in fours, uppermost scattered: petioles ciliate.

1589. WEDELIA. *Receptacle* chaffy: *seeds* crowned with 4-10 teeth: *calyx* simple, 4 or 5-leaved.

frutescens. Stem shrubby: leaves petioled, ovate-lanceolate.
Carthagena. *Jacq. Amer. t. 130.* Seeds 10-toothed.

perfoliata. Stem herbaceous: leaves rhombic, tapering to the base, united.

Mexico. *Cavan. ic. 1. t. 15.* Alcina, *Seeds* 4-toothed.

1590. POLYMNIA. *Receptacle* chaffy: *down* 0: *calyx* double; the outer 4 or 5-leaved; inner 10-leaved, the leaves concave.

canadensis. Leaves denticulate, pointed; lower-ones pinnatifid; upper-ones 3-lobed or entire.

Canada. *Amer. Acad. 3. p. 15. tab. 1. f. 5.*

Wedelia. Leaves 3-lobed, acute, decurrent into the petiole, the lobes angular-sinuate.

Virginia, Mexico. *Cavan. ic. 5. t. 227. Moris. 6. t. 7. f. 55.*

abyssinica. Leaves opposite, sessile, oblong lanceolate; slightly toothed: *calyx* 5-parted: all the florets sessile.

Abyssinia. *Stem* covered with ovate convex brown dots.

1591. TRIXIS. *Receptacle* chaffy: *down* 0: *seeds* villous at top: *florets* of the ray 3-cleft: *calyx* imbricate.

therebinthinaea. Leaves ovate, ferrulate, bristly, hairy underneath: flowers corymbed.

Jamaica. *Swartz. prodr. 115.*

aspera. Leaves ovate, tapering to both ends, tooth-ferrate, rough: flowers panicled.

West Indies. *Anbl. Guian. 2. tab. 317. Baillietia.*

erosa. Leaves broad-ovate, cut-ferrate, wrinkled, rough, longer than the petioles.

Dominica, St. Christophers. *Swartz. prodr. 115.*

1592. CHRYSOGONUM. *Receptacle* chaffy: *seeds* crowned with a 3-toothed scale, and each inclosed in its proper 4-leaved calycle: *calyx* 5-leaved.

virginianum. *Chrysogonum.*

Virginia. *Pluk. alm. t. 83. f. 4. t. 242. f. 3.*

Leaves a little hairy, opposite, on long petioles.

1593. MELAMPODIUM. *Receptacle* chaffy, conic: *seeds* crowned with a heart-shaped involute converging scale: *calyx* 5-leaved.

americanum Stem erect; leaves somewhat linear, with a single tooth each side.

Vera Cruz. *Banks. relig. Houst.* 9. t. 21.

hamile. Stem erect: leaves-toothed, sessile.

Jamaica, St. Domingo. *Savartz. prodr.* 114.

australe. Stem decumbent: leaves oval, serrate.

South America. *Sp. pl.* 1303

1594. UNXIA. *Receptacle* naked, flat: *down* 0: *calyx* 5-leaved.

camphorata. Leaves lanceolate: disk and ray 5-flowered.

Surinam. *Plant* with the odour of camphor: *leaves* sessile, lanceolate, 5-nerved, hairy, soft: *flowers* solitary.

hirsuta. Leaves oblong, somewhat hearted, hairy: stem villous; *calyx* many-flowered.

Cayenne. *Richard aet. nat. hist. Paris.* 1. p. 105.

1595. CALENDULA. *Receptacle* naked, flat: *down* 0: *calyx* many-leaved, nearly equal: *seeds* of the disk membranaceous. *Marigold.*

arvensis. Seeds boat-shaped, muricate, incurved; outer-ones lance-subulate, muricate on the back.

Europe. *Leaves* heart-lanceolate: *seeds* linear.

stellata. Seeds boat-shaped, incurved, muricate; the 5 outer-ones ovate-lanceolate, with a toothed membranaceous margin, muricate on the back.

Barbary. *Cavan. ic.* 1. tab. 3. fig. 5.

sancta. Seeds cup-shaped, obovate, smooth; *calyx* slightly muricate.

Palestine. *Plant* not hairy: *leaves* rough on the edge.

officinalis. All the seeds boat-shaped, muricate, incurved.

South of Europe. *Blackw. t.* 106. *Mill illust. fig.*

suffruticosa. Seeds boat-shaped, incurved, muricate; outer-ones lance-subulate, muricate, erect: leaves lanceolate, somewhat sinuate-toothed, rough: stem suffruticose.

Tunis. *Vahl. symb.* 2. p. 94. *Plant* rough.

- incana.* Seeds boat-shaped, smooth; outer-ones subulate, erect, slightly muricate: leaves oblong-spatulate, downy both sides.
Morocco, Portugal. *Desfont. Atl. 2. tab. 245.*
- pluvialis.* Leaves narrow-lanceolate, sinuate-denticulate: stem leafy: peduncles filiform.
The Cape. *Mill fig. t. 75. f. 2. Herm. Lugdb. t. 105.*
- hybrida.* Leaves oblong-lanceolate, obtuse, toothed: stem leafy: peduncles thickened towards the top.
The Cape. *Mill fig. t. 75. f. 2. Breyn. ic. t. 14 f. 2.*
- amplexicaulis.* Leaves clasping, halbert-shaped, oblong, toothed: stem herbaceous, erect.
The Cape. *Thunb. prodr. 164.*
- pinnata.* Leaves pinnate.
The Cape. *Thunb. prodr. 164.*
- scabra.* Leaves elliptic lanceolate, rough underneath: stem herbaceous, erect.
The Cape. *Thunb. prodr. 163.*
- parvisora.* Leaves sessile, lanceolate, toothed: stem herbaceous, rough-haired.
The Cape. *Thunb. prodr. 163.*
- decurrens.* Leaves lanceolate, decurrent, very entire, glabrous: stem herbaceous.
The Cape. *Thunb. prodr. 163.*
- nudicaulis.* Leaves lanceolate, sinuate-toothed: stem nearly naked.
The Cape. *Comm. hort. 2. t. 33.* Seeds orbicular.
- tomentosa.* Leaves obovate, very entire, downy: scape naked, 1-flowered.
The Cape. *Linn. suppl. 384. Thunb. prodr. 663.*
- pumila.* Leaves orbicular, toothed, petioles ciliate: scape naked, 1-flowered.
New Zealand. *Forst. prodr. n. 305.*
- magellanica.* Leaves wedge form, toothed at top: scape naked, 1-flowered.
Magellan's straits. *Lamarck. illust. gen. t. 681. f. 4.*
- graminifolia.* Leaves linear, nearly entire: stem almost naked.
The Cape. *Mill fig. t. 76. Comm. hort. 2. t. 45.*
- Tragus.* Leaves linear, slightly denticulate, with muricate points underneath: seeds nearly orbicular: stem somewhat shrubby.
The Cape. *Curt. Mag. t. 408. Jacq. Schænb. 2. t. 153.*

oppositifolia. Leaves opposite, linear, entire, a little fleshy, glabrous.
The Cape. *Houtt. Linn. syst* 10. t. 70. f. 2?

glabrata. Leaves elliptic, entire, glabrous: stem shrubby, erect.
The Cape. *Thunb. prodr.* 153.

fruticosa. Leaves obovate, slightly toothed: stem shrubby, decumbent.
The Cape. *Mill. fig. t.* 283.

arborescens. Leaves oblong, toothed, rough; calyx in fruit drooping:
seeds nearly orbicular: stem shrubby, panicked.
The Cape, *Jacq. ic. rar.* 3. tab. 596.

muricata. Leaves oblong, rough with small protuberances; lowermost
toothed; upper-ones entire: stem shrubby.
The Cape. *Thunb. prodr.* 164.

cuneata. Leaves wedge-form, fleshy, toothed: stem shrubby.
The Cape. *Thunb. prodr.* 164.

1596. ARCTOTIS. *Receptacle* villous or chaffy:
seeds with a 5-leaved crown: calyx imbricate, the
scales scarious at top.

A. *Receptacle villous.*

calendulacea. Radiant florets barren, lanceolate; undivided: leaves run-
cinate-pinnatifid, a little downy underneath.
The Cape. *Jacq. Schænb.* 2. t. 157. *Herm. Lugdb.* t. 42.

hypochondriaca. Radiant florets barren, 3—5-parted: leaves lyre-pinnatifid,
toothed, downy underneath.

1. Radiant florets 3 parted, the outer 3-cleft.

2. Radiant florets 4 parted. *Comm. rar. t.* 36.

3. Radiant florets 5-parted: leaves pinnate, toothed: segments
2-parted.

The Cape. *Breyn. ic.* 27. t. 15.

acaulis. Radiant florets sessile: stem very short, decumbent: leaves
hoary both sides, ternate-lyrate, toothed: outer calyx-
scales appressed.

The Cape. *Jacq. Schænb.* 2. t. 158 *Comm. rar. t.* 35.

tricolor. Radiant florets fertile: leaves downy underneath, ovate,
entire or lyrate, toothed: scape grooved, 1-flowered:
outer calyx-scales reflected.

The Cape. *Jacq. Schænb.* 2. tab. 159.

undulata. Radiant florets fertile: leaves downy underneath, undulate-
toothed or lyrate, ovate: scapes 1-flowered, striate:
outer calyx-scales reflected.

The Cape. *Jacq. hort. Schænb.* 2. tab. 160.

- speciosa*. Radiant florets fertile: leaves pubescent, downy underneath, pinnatifid, toothed; the terminal lobe triangular, 3-nerved: scape shorter than the leaves: outer calyx-scales reflected.
The Cape. *Jacq. hort. Schænb. 2. tab. 161.*
- glaucophylla*. Radiant florets fertile: leaves a little hoary, pinnatifid, repand and slightly toothed: stem branched at the base: outer calyx-scales reflected.
The Cape. *Jacq. hort. Schænb. 2. tab. 179.*
- plantaginea*. Radiant florets fertile: leaves lance-ovate, nerved, denticulate, clasping the stem.
The Cape. *Leaves* downy underneath: *disk* barren.
- argentea*. Radiant florets fertile: leaves lance-linear, very entire, downy.
The Cape. *Ait. kew. 3. p. 273. Thunb. prodr. 164.*
- rosea*. Radiant florets fertile: stem procumbent: leaves spatulate-lanceolate, repand-toothed, hoary: crown of the seeds double.
The Cape. *Jacq. hort. Schænb. 2. tab. 162.*
- decumbens*. Radiant florets fertile: stem procumbent: leaves oblong-lanceolate, unequally toothed, hoary, downy underneath, 3-nerved: outer calyx-scales appressed.
The Cape. *Jacq. hort. Schænb. 3. tab. 381.*
- angustifolia*. Radiant florets fertile: stem branched, ascending: leaves downy, spatulate-lanceolate, slightly toothed, 3-nerved: outer calyx-scales reflected.
The Cape. *Jacq. hort. Schænb. 2. tab. 168.* Plant white-downy.
- flaccida*. Radiant florets fertile: stem branched, herbaceous, ascending: spatulate-lanceolate, very entire, 3-nerved, pubescent; all the calyx-scales reflected.
The Cape. *Jacq. hort. Schænb. 2. tab. 163.*
- virgata*. Radiant florets fertile: stem branched, herbaceous, erect: leaves linear-lanceolate, pubescent underneath, 3-nerved, slightly toothed at the base: outer calyx-scales spreading.
The Cape. *Jacq. hort. Schænb. 3. tab. 307.*
- penniculata*. Radiant florets fertile: stem erect, panicked. leaves narrow-lanceolate, toothed, downy underneath. outer calyx-scales reflected.
The Cape. *Jacq. hort. Schænb. 3. tab. 380.*

- decurrens.* Radiant florets fertile: stem shrubby: leaves hairy, oblong, undivided, slightly toothed.
The Cape. *Jacq. hort. Schænb. 2. tab. 165.*
- reptant.* Radiant florets fertile: stem herbaceous, ascending: leaves hairy, hoary underneath; lower ones lyrate-toothed; upper ones lanceolate, toothed.
The Cape. *Jacq. hort. Schænb. 3. tab. 382.*
- auriculata.* Radiant florets fertile: stem shrubby, snowy-downy: leaves lyrate, clasping, downy, toothed; the terminal lobe rhombic.
The Cape. *Jacq. hort. Schænb. 2. tab. 169.*
- fasiuosa.* Radiant florets fertile? stem erect, herbaceous: leaves hairy, oblong, toothed: outer calyx-scales reflected, ciliate.
The Cape. *Jacq. hort. Schænb. 2. tab. 166.*
- spinulosa.* Radiant florets fertile: stem erect, herbaceous: leaves hoary-hairy, viscid, oblong, clasping, mucronate-toothed: outer calyx-scales spreading.
The Cape. *Jacq. hort. Schænb. 2. tab. 167.*
- maculata.* Radiant florets fertile: stem somewhat shrubby: leaves pinnatifid-lyrate, angular-toothed, downy beneath.
The Cape. *Jacq. hort. Schænb. 3. tab. 379.*
- grandiflora.* Radiant florets fertile: stem suffruticose: leaves pinnatifid, toothed, downy underneath; segments linear: outer calyx-scales appressed.
The Cape. *Jacq. hort. Schænb. 3. tab. 378.*
- aspera.* Radiant florets fertile: stem erect, shrubby: leaves pinnatifid, rough, downy beneath, revolute at the margin; segments lanceolate, obtuse, mucronate-toothed.
The Cape. *Comm. hort. 2. t. 22. 2) Bærh. Lugdb. 1. t. 100.*
- lyrata.* Radiant florets fertile; stem shrubby, erect: leaves hoary, pubescent, lyre-pinnatifid; segments oblong, obtuse, angular-toothed.
The Cape. *Willd. 3. p. 2356. Leaves not revolute.*
- elatior.* Radiant florets fertile: stem shrubby, erect: branches downy-hairy: leaves pinnatifid, downy underneath; segments linear-lanceolate, angular-toothed.
The Cape. *Jacq. hort. Schænb. 2. tab. 172.*
- arborescens.* Radiant florets fertile: stem shrubby erect: peduncles hairy: leaves pinnatifid, hoary, downy beneath; segments linear-lanceolate, angular, mucronate-toothed, undulate.
The Cape. *Jacq. hort. Schænb. 2. tab. 171.*

- revoluta.* Radiant florets fertile: stem erect, herbaceous: leaves pinnatifid, hoary, downy beneath; segments lanceolate, angular-toothed, revolute at the margin.
The Cape. *Jacq. hort. Schænb. 2. tab. 173.*
- cuprea.* Radiant florets fertile: stem shrubby, erect: leaves downy beneath; segments linear, somewhat pinnatifid, undulate.
The Cape. *Jacq. hort. Schænb. 2. tab. 176.*
- squarrosa.* Radiant florets fertile: stem shrubby, erect: leaves nearly glabrous, pinnatifid; segments linear, pinnatifid-toothed, undulate.
The Cape. *Jacq. hort. Schænb. 2. tab. 177.*
- Cineraria.* Radiant florets fertile: stem somewhat shrubby: leaves hoary downy, on long petioles, pinnatifid; segments lanceolate, obtuse, serrate.
The Cape. *Jacq. hort. Schænb. 2. tab. 174.*
- glabrata.* Radiant florets fertile: stem shrubby: leaves glabrous: pinnatifid, revolute at the margin; segments lanceolate, acute, toothed; outer calyx-scales nearly erect.
The Cape. *Jacq. hort. Schænb. 2. tab. 175.*

B. Receptacle chaffy.

- paradoxa.* Ray barren: chaff coloured, longer than the disk: leaves doubly pinnate, linear.
The Cape, *Pluk. phyt. 1. 312. f. 5.*
- paleacea.* Ray barren: chaff as long as the florets of the disk: leaves pinnate, linear.
The Cape. *Burm. Afr. 176. f. 65. f. 1. After.*
- dentata.* Ray barren: leaves pinnate, downy, with pinnatifid leaflets.
The Cape. *Burm. Afr. 175. t. 64. Chrysanthemum.*
- pilifera.* Ray barren: leaves pinnate, glabrous; leaflets with cloven teeth, each terminating in a hair.
The Cape. *Pluk. alm. 103. t. 276. f. 2. Chrysanthemum.*
- scariosa.* Ray barren: leaves pinnate, with impressed dots, nearly glabrous, linear-filiform: calyx-scales scarious, inflated.
The Cape. *Aiton. kew. 3. p. 274.*
- crithmoides.* Ray barren: chaff shorter than the disk: leaves pinnate, linear; uppermost simple.
The Cape. *Jacq. hort. Schænb. 2. tab. 155.*

- anthemoides* Ray barren: leaves pinnate and doubly pinnate, linear, glabrous: stem herbaceous.
The Cape. *Curt. Magaz. t. 544* *Burm. Afr. t. 63. f. 2.*
- faniculacea* Ray barren: leaves pinnate, glabrous; leaflets linear-filiform, simple 2 or 3-cleft: stem herbaceous.
The Cape. *Jacq. hort. Schænt. 2. t. 156.*
- ferrata.* Ray barren: leaves lanceolate, undivided, tooth ferrate.
The Cape. *Leaves not white or downy.*
- tenuifolia.* Ray barren: leaves linear, undivided, glabrous.
The Cape. *Leaves somewhat fleshy, smooth.*
- leucanthemoides.* Ray barren, stem herbaceous: lower leaves petioled, obovate, repand-toothed; upper-ones lanceolate; entire, sessile.
The Cape. *Jacq. hort. Schænt. 2. tab. 164.*
C. *Doubtful. Thunb. prodr. 164—166.*
- linearis.* Leaves linear, downy.
- pinnatifida.* Leaves linear, toothed, downy:
- glandulosa.* Leaves heart-shaped, oblong, toothed, glandular, rough.
- grandis.* Leaves petioled, oblong, ferrate, downy.
- elongata.* Leaves obovate-oblong, toothed, downy: stem erect.
- diffusa.* Leaves obovate-oblong, toothed, downy: scapes 1-flowered
- scabra.* Leaves lanceolate, toothed, rough above, downy underneath: stem erect, shrubby.
- incisa.* Leaves oblong, cut, ferrate, downy: stem bristly.
- muricata.* Leaves oblong, lyre-toothed, rough above, downy underneath: stem smooth.
- petiolata.* Leaves ovate, cut, toothed, downy underneath: stem decumbent, rooting.
- formosa.* Leaves pinnatifid, downy: stem decumbent at the base.
- perinata.* Leaves doubly pinnatifid, piliferous, glabrous: stem shrubby.
- elegans.* Leaves lobed, toothed, downy underneath: stem shrubby.
- trifida.* Leaves linear, trifid, pubescent.
- nodosa.* Leaves knobby, pinnate, glabrous: stem shrubby.

- nudicaulis.* Leaves doubly pinnate, glabrous, dotted: scape 1 flowered.
- cernua.* Leaves doubly pinnate, glabrous: stem shrubby, erect: flowers drooping.
- sericea.* Leaves doubly pinnate, hairy.

1597. ARCTOTHECA. Receptacle cellular and chaffy: down o: calyx imbricate.

- repens.* Arctotheca,
Arctotis repens Jack. hort. Schænb. 3. p. 31. tab. 306.
The Cape. Wendl. hort. Herrenbus. p. 8. tab. 6.
Ray barren: stem creeping: leaves pinnatifid, downy.

1598. OSTEOSPERMUM. Receptacle naked: down o: calyx many-leaved: seeds globular, coloured, bony.

- spinosum.* Leaves obovate, serrate, pubescent: spines branched.
The Cape. Jack. hort. Schænb. 3. tab. 377.
- spinescens.* Leaves lanceolate, pinnatifid-toothed, rough: spines branched.
The Cape. Comm. hort. 2. t. 43. Volk. Morimb. t. 105.
- piliferum.* Leaves lanceolate, mucronate, slightly petioled, glabrous, serrate: branchlets angular-denticulate.
The Cape. Mill. fig. t. 194 f. 1. Burm. Afr. t. 61. f. 2.
- moniliforme.* Leaves obovate, serrate, petioled, slightly decurrent.
The Cape. Dill. Elsb. t. 68. f. 79. Breyn. cent. t. 76.
Petioles with a protuberance under the base.
- ilicifolium.* Leaves oblong, tooth angular, rough, half clasping: branches grooved.
The Cape. Burm. Afr. t. 62. Leaves villous underneath.
- rigidum.* Leaves tooth-pinnatifid, hairy: branches unarmed.
The Cape. Ait. kew. 3. p. 275.
- cæruleum.* Leaves pinnatifid, glabrous; segments lanceolate, unequally serrate.
The Cape. Jacq. ic. 1. t. 171. L'Herit. stirp. 11. t. 6.
- bipinnatum.* Leaves doubly pinnate.
The Cape. Thunb. prodr. 167.
- arctotoides.* Leaves petioled, lyrate: petioles auricled at the base, half clasping, downy.
The Cape. Upper-leaves lanceolate, clasping.

perfoliatum. Leaves petioled, ovate, angular-toothed, downy underneath: petioles clasping in a perfoliate manner.

The Cape. Base of the *petiole* surrounding the stem.

niveum. Leaves petioled, ovate, toothed, woolly.

The Cape. *Herb* clothed with dense white wool.

herbaceum. Leaves nearly sessile, ovate, spatulate, ferrate: stem herbaceous.

The Cape. *Leaves* acutely ferrate.

hirsutum. Leaves ovate, hairy.

The Cape. *Thunb. prodr.* 166.

Bidens. Leaves linear-oblong, woolly, entire and toothed.

The Cape. *Thunb. O. Calendulaceum. Linn. suppl.*

ciliatum. Leaves elliptic-lanceolate, crenate, ciliate.

The Cape. *Burm. Afr. 171. t. 61. f. 2.*

junceum. Leaves linear, acute, carinate, distant: panicle terminal.

The Cape. *Stem* striate: *leaves* stiff, smooth.

corymbosum. Leaves lanceolate, glabrous: flowers panicled.

The Cape. *Leaves* rough on the margin.

scabrum. Leaves filiform, bristly.

The Cape. *Thunb. prodr.* 166.

incanum. Leaves lanceolate, downy.

The Cape. *Thunb. prodr.* 166.

triquetrum. Leaves linear, 3-sided.

The Cape. *Flowers* axillary, solitary, peduncled.

teretifolium. Leaves 3-sided, glabrous, grooved underneath.

The Cape. *Thunb. prodr.* 166.

imbricatum. Leaves oblong, imbricate, with cartilaginous ferratures, hooked at top.

The Cape. *Leaves* glutinous, edged with short hairs.

polygaloides. Leaves lanceolate, mucronate, carinate, glabrous, decurrent: axils woolly.

The Cape. *Pluk. mant. 47. t. 382. Chrysanthemum:*

1599. OTHONNA. *Receptacle* naked: seeds naked or downy: calyx 1-leaved, many-cleft, somewhat cylindrical. African rag-wort.

A. *Leaves cut or pinnate.*

- capillaris.* Leaves obovate, glabrous, lyre-toothed: stem herbaceous, capillary, branched.
The Cape. *Calyx* 5-veined, ovate, acute.
- trifurcata.* Leaves trifid pinnatifid, with linear segments; peduncles lateral, flat topped.
The Cape. *Linn. suppl.* 387. *Thunb. prodr.* 168.
- trifida.* Leaves trifid linear: flowers lateral, peduncled.
The Cape. *Calyx* deeply divided: seeds white woolly.
- multifida.* Leaves trifid and many cleft, glabrous: flowers lateral.
The Cape. *Thunb. prodr.* 168.
- ciliata.* Leaves pinnatifid, sessile; segments ovate, ciliate: peduncles terminal, elongated, 1-flowered.
The Cape. *Linn. suppl.* 386. *Thunb. prodr.* 168.
- pinnatifida.* Leaves pinnatifid, pubescent: stem herbaceous.
The Cape. *Thunb. prodr.* 168.
- muricata.* Leaves pinnatifid, imbricate; incurved; segments 3-sided, subulate: stem forked: peduncles from the forks.
The Cape. *Linn. suppl.* 388. *Thunb. prodr.* 168.
- pinnata.* Leaves pinnatifid; segments lanceolate, very entire, decurrent.
The Cape. *Burm. Afr.* 164. *tab.* 59. *Solidago.*
- Tagetes.* Leaves deeply pinnatifid, glabrous, segments linear slightly toothed: stem herbaceous corymbed.
The Cape. *Calyx* cup-shaped, about 14-toothed.
- pectinata.* Leaves pectinate-pinnatifid, downy; segments linear, slightly toothed on the outer margin: stem shrubby.
The Cape. *Curt. Mag.* 1 306. *Mill. fig. t.* 194. *f.* 2.
- Albanasia.* Leaves pinnate, filiform: calyx hæmispherical, many-toothed.
The Cape. *Jacq. hort. Schænb.* 2. *tab.* 242.
- abrotanifolia.* Leaves many times pinnate, linear: stem with villous joints.
The Cape. *Comm. hort.* 2. *t.* 32. *Seba. Mus.* 2. *t.* 23. *f.* 6.
- digitata.* Leaves oblong, undivided or toothed in a finger-like manner: peduncles 1-flowered.
The Cape. *Root* tuberous.

B. *Leaves undivided, toothed, or very entire.*

retrofracta. Leaves lanceolate, with a single tooth in the middle each side or entire: peduncles axillary: stem shrubby, divaricate.

The Cape. *Jacq. hort. Schænb. 3. tab. 376.*

coronopifolia. Lowest leaves lanceolate, very entire: upper ones sinuate-toothed.

The Cape. *Comm. hort. 2. p. 139. tab. 70. Jacobæa.*

cheirifolia. Leaves lanceolate, 3-nerved, very entire: stem somewhat shrubby, creeping.

Africa. *Mill. fig. 245. f. 1. Dubam. arb. 2. t. 17.*

crassifolia. Leaves lanceolate, very entire, somewhat fleshy: stem erect.

Africa. *Mill. fig. t. 245. f. 2. Comm. hort. 2. t. 74.*

fulcata. Leaves ovate, glabrous, grooved underneath, ciliate with serratures.

The Cape. *Thunb. prodr. 167.*

denticulata. Leaves oblong, denticulate, glabrous, tapering to the base, clasping: flowers panicled.

The Cape. *Aiton Kew. 3. p. 276.*

quinquedentata. Leaves obovate oblong, glabrous, 5-toothed: stem erect.

The Cape. *Thunb. prodr. 168.*

heterophylla. Root-leaves ovate, angular-toothed; those of the stem lanceolate, nearly entire.

The Cape. *Linn. suppl. 387. Root tuberous.*

Lingua. Leaves very entire; radical-ones lanceolate; stem-leaves lanceolate, somewhat hearted, half clasping: stem herbaceous, erect.

The Cape. *Jacq. hort. Schænb. 2. tab. 238.*

flicaulis. Leaves very entire; radical-ones heart-shaped: stem leaves ovate-lanceolate, hearted at the base, clasping: stem flaccid, filiform, branched.

The Cape. *Jacq. hort. Schænb. 2. tab. 241.*

bulbosa. Leaves ovate, slightly toothed: peduncles 1-flowered, very long.

The Cape. *Moris. 3. sect. 7. t. 18. f. 33. Breyn. cent. 1. t. 66.*

parviflora. Leaves lanceolate, glabrous, clasping: flowers panicled.

The Cape. *Comm. hort. 2. t. 72. Volk. Norib. 1. 226.*

Leaves with a single tooth on each side: calyx 8-cleft.

amplexicaulis. Leaves clasping, oblong, entire: stem shrubby.

The Cape. *Thunb. prodr. 167.*

- lateriflora*. Leaves lanceolate: flowers lateral: peduncles as long as the leaves.
The Cape. *Leaves* sessile, very entire, glabrous.
- imbricata*. Leaves obovate, entire: flowers lateral.
The Cape. *Thunb. prodr.* 167.
- virginica*. Leaves oblong, imbricate, 5-toothed: peduncles lateral.
The Cape. *Leaves* with 5 or 7 erect teeth: *calyx* 7-leaved.
- ericoides*. Stem forked, imbricate: leaves acroste: peduncle very long, solitary, from the fork.
The Cape. *Leaves* scattered, crowded, subulate, short.
- linifolia*. Herbaceous. leaves linear, margined, grassy.
The Cape. *Leaves* woolly at the base,
- tenuissima*. Leaves filiform, fleshy: stem shrubby.
The Cape. *Jacq. hort. Schænb.* 2, *tab.* 239.
- frutescens*. Leaves oval, slightly toothed: stem shrubby.
The Cape. *Comm. hort.* 2. p. 147. *t.* 76. *Jacobæa*.
- arborescens*. Leaves oblong, very entire: stem arborescent, fleshy, with woolly knots.
The Cape. *Dill. Elsb.* 1. 103. *f.* 123. *Calyx* 5-cleft.
- cacaloides*. Fleshy, naked, smooth: leaves fascicled, obovate, sessile: peduncles 1 flowered.
The Cape. *Stem* glabrous, with woolly knots.
1600. HIPPIA. *Receptacle* naked: *down* 0: *seeds* with very broad margins, naked: *calyx* hemispherical, somewhat imbricate: *florets* of the ray 10, obsolete, 2 or 3-cleft.
- frutescens*. Shrubby, villous: leaves pinnatifid: flowers corymbed.
The Cape. *Comm. hort.* 2. p. 201. *tab.* 101. *Tanacetum*.
- minuta*. Herbaceous, procumbent, creeping, glabrous: leaves pinnate: peduncles axillary, 1-flowered.
South America. *Flowers* very minute: *calyx* 7-leaved.
- holonifera*. Herbaceous, procumbent, creeping, glabrous: leaves pinnatifid: flowers sessile on the root.
Portugal. *Brotero. phytog. Lus.* 14. Plant small.
- integrifolia*. Bristly, erect: leaves ovate, ferrate, 5-nerved: racemes terminal.
East Indies. *Houtt. Linn. syst.* 9. *t.* 67. *f.* 2. *Ethulia*.

1601. PSIADIA. *Receptacle* naked: *down* simple, fessile: *calyx* imbricate, ovate: *florets* of the ray abbreviated.

glutinosa.

Psidia.

Mauritius. *Jacq. hort. Schænb. 3. tab. 102.*

Shrub erect: *leaves* ovate-lanceolate, ferrate, the younger-ones glutinous: *flowers* corymbed.

1602. ERIOCEPHALUS. *Receptacle* naked or villous: *down* 0: *calyx* 10-leaved, equal: *florets* of the ray 5.

africanus.

Leaves entire and divided: *flowers* corymbed.

The Cape. *Dill. Elth. 110. f. 134. Walt. hort. 1. t. 1.*

glaber.

Leaves filiform, undivided, glabrous,

The Cape. *Thunb. prodr. 168.*

racemosus.

Leaves linear, undivided, silky.

The Cape. *Flowers* in racemes.

1603. PARTHENIUM. *Receptacle* chaffy, flat: *seeds* obovate, mostly naked: *calyx* 5-leaved.

Hysterophorus.

Leaves doubly pinnatifid.

Bastard feverfew.

West Indies. *Cavan. ic. 4 t. 378. ArgYROCHÆTA.*

integrifolium.

Leaves undivided, oblong, toothed.

Virginia. *Willd. hort. Berol. 1. 4. Dill. Elth. 1. 225. t. 292.*

1604. IVA. *Receptacle* hairy: *seeds* naked, obtuse: *calyx* 3-leaved: *florets* of the ray 5: *styles* 2, long.

annua.

Leaves lance-ovate: stem herbaceous: bractes lanceolate, pubescent: petioles pubescent.

South America. *Schmeidel. ic. tab. 61.*

ciliata.

Leaves lance-ovate: stem herbaceous: bractes lanceolate, pointed, ciliate: petioles ciliate.

North America. *Michaux. Amer. 2. p. 184. I. annua.*

Petioles and *bractes* with very long fringe.

imbricata.

Leaves linear-lanceolate, very entire, glabrous: stem somewhat shrubby.

Carolina. *Walt. Carol. 234.*

frutescens.

Leaves lanceolate, rough with dots, deeply ferrate: stem shrubby.

North America. *Pluk. alm. tab. 27. fig. 1.*

1605. **FILAGO.** *Receptacle* chaffy: *down* o: *calyx* imbricate: *florets* of the margin seated among the scales of the calyx. *Cotton weed.*

pygmæa. **Filago.**
South of Europe. *Cavan. ic. 1. t. 36.*
Plant white-woolly: *flowers* sessile, nearly stemless.

1606. **MICROPUS.** *Receptacle* chaffy: *down* o: *calyx* invested with scales: *ray* o: *florets* of the margin inclosed in the scales of the calyx.

supinus. Leaves opposite, obovate wedge form: stem decumbent.
South of Europe. *Cavan. ic. 1. t. 35 Pluk. alm t. 187. f. 6.*

erectus. Leaves alternate, lanceolate: flowers woolly: stem erect.
South of Europe. *Læfl. hisp. 166. tab. 1. f. 3.*

ORDER V. POLYGAMIA SEGREGATA.

1607. **ELEPHANTOPUS.** *Calycle* 4-flowered: *florets* tongue-shaped, all hermaphrodite: *receptacle* naked: *down* bristly. *Elephant's foot.*

scaber. Leaves rough; radical-ones narrowed at the base: stem-leaves lanceolate: stem branched, flat topped.
East Indies. *Rheed. Mal. 10. t. 7. Breyn ic. t. 24.*

carolinianus Root and stem-leaves, oblong, narrowed at the base, a little hairy: stem simple, hairy.

America. *Sloan. Jam. 1. t. 156. f. 1. Dill. Elth. t. 106 f. 126.*

tomentosus. Leaves ovate, downy.
West Indies. Nearly allied to the two last.

nudiflorus. Leaves oblong, tapering to both ends, bristly-pubescent; rough on the margin: spikes naked, terminal.
St. Domingo. *Willd. 3. p. 2390.* Leaves ferrate,

spicatus. Leaves ovate-lanceolate, ferrate, rough: clusters of flowers sessile, lateral: stem branched.
Jamaica, Hispaniola. *Sloan. Jam. 1. t. 150. f. 3, 4.*

angustifolius Stem-leaves linear-lanceolate, entire, villous: clusters of flowers sessile and peduncled: stem simple.
Jamaica. *Sloan. Jam. 1. p. 256. t. 148. f. 4. Conyza.*

1608. **JUNGIA.** *Receptacle* chaffy: *down* feathery: *calyx* 3 or 4-flowered: *calycle* many-leaved, many-flowered: *florets* all hermaphrodite, tubular, 2-lipped; outer-lip ligulate; inner-lip 2-parted.

ferruginea. Jungia.

South America. *Stem* clothed with ferruginous down: *leaves* remote, flat, rounded, with 5 rounded lobes, hairy: *panicle* terminal.

1609. OEDERA. *Calyx* many-flowered: *florets* tubular, hermaphrodite, with one or two female ligulate-ones: *receptacle* chaffy: *seeds* crowned with many chaffs.

prolifera. Leaves lanceolate, serrate, reflex & d.
The Cape. *Flowers* terminal, solitary, sessile.

aliena. Leaves linear, ciliate, downy underneath.
The Cape. *Jacq hort. Schœnb 2. tab 154 fragm. t. 2. f. 9.*
Florets of the ray ligulate, 3-lobed, hermaphrodite.

hirta. Leaves ovate, entire, rough haired.
The Cape. *Thunb prodr 169.*

1610. CRASPEDIA. *Calyx* imbricate: *calycle* 0: *florets* in a few depressed bundles, all hermaphrodite and tubular: *receptacle* chaffy: *down* feathery.

uniflora. Craspedia.
New Zealand. *Forst. prodr. 306.*

1611. LAXMANNIA. *Calyx* many-leaved, the outer-leaves spreading: *calycle* 1-leaved, 1-flowered, 2-awned: *florets* tubular, all hermaphrodite: *receptacle* chaffy: *down* 0.

arborea. Laxmannia.
New South Wales. *Forst. Char. Gen. p. 93. tab 47.*

1612. NAUENBURGIA. *Calyx* foliaceous: *calycle* 2 leaved, 1-flowered: *florets* of the margin female and fertile: *receptacle* bristly: *down* 0.

trinervata. Nauenburgia.
South America. *Schrad Journ. 1800. 2. t. 5. Brotera.*
Stem glabrous, branched: *leaves* oblong lanceolate, serrate, 3-nerved, glabrous: *flowers* axillary, solitary, peduncled, yellow.

1613. NOCCÆA. *Calyx* 6 8-parted: *calycle* 5 cleft: *florets* tubular, all hermaphrodite: *receptacle* cellular and ciliate.

rigida.

Noccea.

New Spain. *Cavan. ic. 3. p. 12. tab. 224.* Nocca.

Stem branched: leaves coriaceous, opposite, ferrate, 3-nerved, veined: petioles united at the base: flowers terminal.

1614. SPHÆRANTHUS. Calycle 8-flowered: florets tubular, hermaphrodite and indistinct female: receptacle scaly: down o.

indicus.

Leaves lanceolate, ferrate, decurrent, glabrous: peduncles winged: wings of the stem and peduncles ferrate.

East Indies. *Burm. Zeyl. t. 94. f. 3. Rheed. Mal. 10. t. 43.**microcephalus.*

Leaves ovate-lanceolate, obscurely mucronate ferrate, decurrent, glabrous; peduncles winged: wings of the stem and peduncles very entire.

Java. *Willd. 3. p. 2395.* Heads of flowers oblong.*hirtus.*

Leaves obovate, ferrate, hairy, decurrent: peduncles winged: wings of the stem and peduncles ferrate.

— *Lamarck. illust. gen. tab. 718. f. 1.**cochinchiensis.*

Leaves oblong, very entire, decurrent, downy: heads of flowers heart-ovate, sessile, terminal.

Cochinchina. *Lour. Cochinch. 510.**africanus.*

Leaves ovate, ferrate, decurrent: peduncles cylindrical, not winged.

The Cape. *Pluk. alm. t. 108. f. 7. Senecio.**chinensis.*

Leaves sessile, pinnatifid.

East Indies. *Peduncles* winged, cuffed.

1615. NASSAUVIA. Flowers clustered into a head, mixed with intervening scales: calyx 4 or 5-flowered, double; the outer 3-leaved, inner 5-leaved: florets tubular, somewhat 2-lipped, all hermaphrodite: receptacle naked: seeds crowned with 4 or 5 deciduous bristles.

suaveolens.

Nassauvia.

Magellan's straits. *Lam. illust. gen. tab. 721.*

Stems ascending, clothed with imbricate leaves: leaves wedge-oblong, pointed, deeply ferrate: flowers terminal, invested with ovate acute scales.

1616. ECHINOPS. Calyx many-leaved, reflected: calycle 1-flowered: florets tubular, all hermaphrodite: receptacle bristly: seeds naked or downy.

Globe thistle.

sphaeroccephalus. Leaves pinnatifid, pubescent above, hoary-woolly underneath: stem branched.

South of Europe. *Mill. illust. tab.* * Calyx-scales pubescent.

spinosus. Heads of flowers intermixed with long spines.

Barbary, Egypt. *Moris. 3. sect. 7. t. 35. f. 4.*

Ritro. Heads globular: leaves pinnatifid, glabrous above.

2 Leaves doubly pinnatifid. *Gmel. Sib. 2. p. 102 tab. 46.*

South of Europe. *Mill. fig. t. 130.* Calyx-scales ciliate.

arigosus. Heads fascicled: lateral calyxes barren: leaves with stiff bristles above.

Spain. *Moris, sect. 7. t. 35. f. 6.* Calyx-scales ciliate at the base.

lanuginosus. Stem shrubby, branched, woolly: leaves mostly doubly pinnate; leaflets narrow, glabrous above: head sessile.

Greece, Levant. *Lamarck encyclop. 2. p. 333.*

virgatus. Stem wand like, branched above: leaves doubly pinnatifid, glabrous above, downy underneath: heads globular, peduncled, terminal.

South of Europe. *Lam. encyclop. 2. p. 334.*

1617. CHAMALEON. Calyx 6 or 8-flowered, imbricate, many-leaved: calycle 1-flowered, many-leaved: florets tubular, all hermaphrodite: receptacle naked: seeds covered with the calycle growing to them.

corymbosus.

Chamæleon.

Carthamus corymbosus. Sp. pl. 1164.

Brotera corymbosa. Willd. sp. pl. 3. p. 2399.

Chamæleon niger. Baub. pin. 280 6.

South of Europe. *Moris. 3. f. 7. t. 33. f. 17.* *Carduus.*

Stem simple, white: leaves long, narrow, edged with spines: heads oval, scaly; the scales ending in a purple spine: flowers white.

1618. ROLANDRA. Florets fascicled in a head, mixed with intervening scales, all hermaphrodite: calycle 2-valved, 1-flowered: seeds crowned with a toothed margin.

argentea.

Rolandra.

West Indies. *Sloan. Jam. 1. t. 7. Plum. ic. t. 123.*

1919. BOOPIS. Calyx 1-leaved, many-parted, many-flowered: florets tubular: receptacle chaffy: seeds each involved in its proper calycle and crowned with its permanent teeth. Bulls' eye.

balsamita-folia. Leaves wedge-lanceolate, deeply ferrate.
Chili. *Ruiz. Pav. pl. Peruv. 1. t. 76. f. a.* Scabiosa?

anthemoides. Leaves pinnate, capillary.
Bonaria. *Juss. ann. hist. nat. 2. tab. 58. f. 2.*

1620. CALYCERA. *Calyx* many-leaved: *calycle* 5 toothed, 1-flowered: *florets* tubular, male and hermaphrodite: *receptacle* chaffy: *seeds* naked.

herbacea. Calycera.
Chili. *Cavan. ic. 4. p. 34. tab. 358.*
Root fungous: *stems* simple, glabrous, hollow; *leaves* linear-lanceolate, pinnatifid-toothed: *flowers* globular, terminal.

1621. TETRANTHUS. *Calyx* 5-leaved, 4-flowered: *calycle* 1-leaved, oblique: *florets* all hermaphrodite: *receptacle* naked: *seeds* crowned with the ciliate margin of the calyx.

littoralis. Tetranthus.
Hispaniola. *Forst. prodr. 116.*
Stems creeping; *leaves* roundish-ovate, 3 nerved, glabrous, membranaceous: *peduncles* axillary, solitary.

1622. GUNDELIA. *Calyx* 0; but the cells of the receptacle 5-flowered: *florets* tubular, male and hermaphrodite: *receptacle* chaffy: *down* 0.

Tournefortii Gundelia.
Armenia. *Mill fig. t. 278. Tournef. it. t. 108.*
Plant milky: *leaves* alternate, prickly: *flowers* terminal.

1623. STÆBE. *Calyx* imbricate- *calycle* 5-leaved, 1-flowered: *florets* tubular, all hermaphrodite: *receptacle* naked: *down* feathery.

A. *Leaves* mucronate: *flowers* in clustered heads.

incana. Leaves mucronate, filiform, woolly.
The Cape. *Thunb. prodr. 169.*

æthiopica. Leaves subulate, reflected: stem erect.
The Cape. *Leaves* rigid, pungent, hoary.

ericoides. Leaves linear, oblique, reflected: stem erect.
The Cape. *Ar. 3. sect. 7. t. 18. f. 10. Breyn. cent. t. 9.*
Calyx 2 flowered, 1 tubular, the other ligulate, neutra.

prostrata. Leaves lanceolate, oblique: stem decumbent.
The Cape. *Leaves* recurved, white-downy above.

- phylicoides*. Leaves lanceolate, erect: stem erect.
The Cape. *Thunb. prodr* 169.
- gompreno-*
ides. Leaves mucronate, ovate, ciliate.
The Cape. *Houtt. Linn syst.* 4 *tab.* 34. *f.* 1.
- gnaphaloides*. Leaves lanceolate, wrinkled: heads panicled.
The Cape, *Burm. Afr. t.* 17. *f.* 1. Seed with 6 bristles,
B. *Leaves mucronate: flowers in clustered spikes.*
- scabra*. Leaves 3-sided, rough and ciliate.
The Cape. *Leaves* twisted, downy within.
- cinerea*. Leaves linear-subulate, oblique: spike cylindrical.
The Cape, *Pluk. mant. t.* 297. *f.* 1. *Pet. gaz.* 2. *t.* 3. *f.* 9.
- recrea*. Leaves filiform, mucronate and unarmed: branches reflected.
The Cape. *Stem* procumbent: *spikes* ovate.
- disicha*. Leaves fascicled, mucronate and unarmed: spike 2-rowed.
The Cape. *Leaves* recurved: *spike* leaning 2 ways.
- fasciculata*. Leaves fascicled, triangular-subulate, spikes 2-rowed.
The Cape. *Thunb. prodr.* 169.
- plumosa*. Leaves fascicled: subulate: spikes interrupted.
The Cape. *Pet. gaz.* 9. *t.* 5. *f.* 4. Leaves filiform.
- C. *Leaves not mucronate or pungent.*
- fusca*. Leaves linear, downy: heads terminal.
The Cape. *Moris. sel.* 7. *t.* 18. *f.* 10. Leaves cinerous.
- virgata*. Leaves linear; downy: spikes terminal.
The Cape. *Thunb. prodr.* 170.
- aspera*. Leaves linear, glabrous, reflected: heads lateral.
The Cape. *Thunb. prodr.* 170.
- passerinioides*. Leaves oblong, downy underneath, appressed: flowers in racemed spikes.
Mauritius, Bourbon. *Leaves* minute, acrosc.
- Rhinocerotis*. Leaves filiform, glabrous: branchlets downy.
The Cape. The chief food of the Rhinoceros.
- cernua*. Leaves ovate: glabrous, imbricate: branchlets downy.
The Cape. *Thunb. prodr.* 170.
- nivea*. Leaves 3-sided, obtuse, appressed: heads terminal.
The Cape. *Thunb. prodr.* 170.

CLASS XX. GYANDRIA.

Stamina placed on the pistil, above the germ.

ORDER I. DIANDRIA.

1624. ORCHIS. *Nectary* a horn-like spur behind the flower.
 1625. SATYRIUM. *Nectary* a roundish bag behind the flower.
 1626. OPHRYS. *Nectary* a deflected lip, slightly carinate underneath.
 1627. MALAXIS. *Nectary* of one hollow, heart-shaped, erect leaf, embracing the organs of fructification: *corol* reversed.
 1628. SERAPIAS. *Nectary* ovate, gibbous underneath, with an ovate lip.
 1629. LIMODORUM. *Nectary* 1-leaved, concave, pedicelled, within the lowest petal.
 1631. CYPRIPEDIUM. *Nectary* 2-lipped; the lower-lip large, swelling, and hollow.
 1630. EPIDENDRUM. *Nectary* turbinate, oblique, reflected: *corol* spreading, without spur.
 1634. CRANICHIS. *Nectary* vaulted, ovate, gibbous, slightly keeled, entire at the tip.
 1632. ARETHEUSA. *Nectary* 1-leaved, tubular, united to the ringent *corol*.
 1633. DIURIS. *Nectary* dependent: *petals* 9; the 5 outer-ones very large, of 2 shapes: *column* of the fructification reversed, with a lid at top.
 1635. DISA. *Spathe* 1-valved: *petals* 3; the third less, 2-parted, gibbous at the base.
 1636. FORSTERA. *Calyx* double; the outer inferior, 3-leaved; inner superior, 6, cleft: *corol* tubular.
 1637. GUNNERA. *Calyx* 2-toothed: *corol* 0: *drupe* somewhat fleshy, crowned with the calyx growing to it.

ORDER II. TRIANDRIA.

1638. SALACIA. *Pistil* 1: *calyx* 5-parted: *corol* 5-petalled: *anthera* seated on the tip of the germ.

ORDEER. III. HEXANDRIA.

1639. ARISTOLOCHIA *Stigmata* 6: *calyx* 0: *corol* 1-petalled: *capsule* 6-celled.

ORDER IV. DODECANDRIA.

1640. CYTINUS. *Stigma* 1: *calyx* 4-cleft: *corol* 0: *berry* 8-celled.

ORDER I. DIANDRIA.

1624. *Nectary* consisting of a horn-like spur behind the flower.

A. *Helmet of the corol spurred.*

- vaccina.* Bulbs undivided: helmet of the corol 2 spurred: bractes erect.
 The Cape. *Aiton. kew. 3. p. 294.*
Leaves roundish, grooved underneath: *spike* compact: *bractes* roundish, acute, erect: *flowers* not odorous.
- bicarin.* Bulbs undivided: helmet of the corol 2-spurred: bractes reflected.
 The Cape. *Burb. cent. 3. 6. tab. 6.*
Leaves ovate-oblong, with lines underneath: *spike* lax: *bractes* ovate-lanceolate, reflected: *flowers* highly fragrant.
- biflora.* Bulbs undivided: helmet of the corol 1-spurred; wings spreading; lip lanceolate, pointed.
 The Cape. *Root-leaves* ovate: *scape* filiform.
- carnea.* Bulbs undivided: helmet of the corol 1 spurred; wings spreading; lip very small, nearly ovate.
 The Cape. *Stem-leaves* numerous, lanceolate, sheathing: *spike* lax: *bractes* lanceolate, longer than the flower.
- spathulata.* Bulbs undivided: helmet of the corol 1-spurred; lip heart-shaped, on filiform pedicel, twice as long as the flower.
 The Cape. *Root-leaves* linear, half as long as the stem: *flowers* mostly 2-alternate: *helmet* heart-shaped, peduncled, with a very short spur; 2-lateral petals, ovate, pointed.
- tripetaloides.* *Leaves* lanceolate: helmet of the corol vaulted, obtuse, spurred: *nectary* lanceolate, very small.
 The Cape. *Flowers* numerous, alternate: *spur* long.
- sagittalis.* Helmet of the corol spurred, with 2 auricles: lip lanceolate.
 The Cape. *Auricles* reflected: *spur* short.
- barbata.* Helmet of the corol erect, spurred: *nectary* about 3 cleft, ciliate.
 The Cape. *Bulbs* hairy: *leaves* radical, linear-filiform.
- draconis.* Bulbs undivided: helmet of the corol spurred: *nectary* linear, ovate at the tip.
 The Cape. *Scape* sheathed with leaves: *spur* long.

- tenella.* Helmet of the corol spurred, conical at the base: nectary linear.
The Cape. *Leaves* on the stem and root linear.
- monorrhiza.* Bulbs solitary, undivided: lip of the nectary 3 parted; the lateral divisions setaceous: spur linear, compressed, as long as the germ.
Jamaica. *Leaves* oblong: *stem* simple, erect.
B. *Bulbs undivided.*
- sancta.* Bulbs undivided? lip of the nectary lanceolate, 5-toothed: spur incurved: petals connivent.
Palestine. *Lip* divided into 5 acute teeth.
- Susannæ.* Bulbs undivided wings of the nectary wider, ciliate.
Amboina. *Rumph Amb.* 5. t. 287. f. 2. *Herm parad.* t. 209.
- ciliaris.* Bulbs undivided: lip of the nectary lanceolate, ciliate: spur very long.
Virginia. *Lip* pendent, cut into unequal fringe.
- habenaria.* Bulb solitary, undivided: lip of the nectary 2-parted; lateral segments setaceous: spur filiform, much longer than the germ.
Jamaica. *Swartz. obs.* 319 *tab.* 9. Bulb downy.
- * *bifolia.* Bulbs undivided: lip of the nectary lanceolate, quite entire: spur very long: lateral petals spreading.
Groves. *Eng. Bot. t.* 22. *Curt. Lond. fasc.* 6. t. 65.
- * *ornithis.* Bulbs undivided: lip of the nectary roundish: spur twice as long as the germ: 3 outer petals converging; the rest much spreading.
Austria. *Jacq. Austr.* 2 t. 138. Germ twisted.
- flexuosa.* Bulbs undivided: lip of the nectary imbricate: 2 of the petals concealed, filiform: scape flexuous.
The Cape. *Lateral petals* 2, under the helmet.
- eucullata.* Bulbs undivided: lip of the nectary 3-cleft: petal confluent: stem naked.
Siberia. *Gmel. Sib.* 1. 16. t. 3. f. 2. Root-leaves 2, ovate.
- globosa.* Bulbs undivided: lip of the nectary reversed, 3-cleft; the middle segment emarginate: spur short: petals subulate at the tip.
South of Euroac. *Jacq. Aust.* t. 265. *Hall. Helv.* t. 27.
- * *pyramidalis.* Bulbs undivided: lip of the nectary in 3 equal very entire segments, with 2 protuberances: spur long, filiform.
Pastures. *Eng. Bot. t.* 110. *Jacq. Aust.* t. 266.

- Coriophora*. Bulbs undivided: lip of the nectary in 3 reflected crenate segments: spur short: petals converging.
South of Europe. *Jacq. Aust. t. 112. Flor. Dan. t. 224.*
- cubitalis*. Bulbs undivided: lip of the nectary 3-cleft, filiform; the middle segments ovate: spur shorter than the germ.
Ceylon. *Spike* very narrow, naked: *bractes* lanceolate.
- * *Morio*. Bulbs undivided: lip of the nectary 4-cleft; the lateral segments crenate: spur obtuse, ascending: petals connivent, many-nerved.
Meadows. *Curt. Lond. fasc. 3. t. 59. Flor. Dan. t. 253.*
- * *mascula*. Bulbs undivided: lip of the nectary 4-cleft, slightly crenate: spur ovate: outer-petals reflected, 3-nerved.
Pastures. *Engl. Bot. t. 631. Curt. Lond. fasc. 2. t. 62.*
- * *ustulata*. Bulbs undivided: lip of the nectary 4-cleft, rough with dots: spur obtuse, very short: petals distinct.
Pastures. *Eng. Bot. t. 18. Flor. Dan. t. 103.*
- * *militaris*. Bulbs undivided: lip of the nectary 5-cleft, rough with dots: spur obtuse, very short: petals confluent.
Meadows. *Eng. Bot. t. 16. Curt. Lond. fasc. 6. t. 64.*
Petals and *lip* of the *nectary*, very variable.
- papilionacea* Bulbs undivided: lip of the nectary undivided, crenate, emarginate, widened: spur subulate: petals converging.
South of Europe. 2) *Jacq. rar. t. 163. O. rubra.*
- pallens*. Bulbs undivided: lip of the nectary in 3 very entire divisions: spur obtuse, moderate long: petals spreading.
South of Europe. *Jacq. Aust. t. 45. Hall. Herb. t. 30.*
- bispidula*. Bulbs undivided: stem leafless: leaf round, bristly: lip of the nectary in 5 linear segments.
The Cape. *Plant* bristly: *root-leaves* two.
- speciosa*. Bulbs undivided: stem leafy: leaves wide ovate: lip of the nectary in 3 flexuous segments.
The Cape. *Racemes* large, many-flowered, white.
- plantaginea* Bulbs undivided: stem leafy: leaves broad oval: lip of the nectary 3-parted; middle segment long, linear, pointed, recurved: spur twice as long as the germ.
Coromandel. *Roxb. Coromb. 2. p. 32. tab. 37.*

C. *Bulbs palmate.*

- * *latifolia*. Bulbs somewhat palmate, straight: lip of the nectary 3-cleft; lateral segments reflected: spur conic: bractes twice as long as the flower.
Marshes. *Curt. Lond. fasc. 5. t. 65. Flor. Dan. t. 266.*
- incarnata*. Bulbs palmate: lip of the nectary obscurely 3-lobed, serrate: spur conic: dorsal petals reflected.
France, Italy. *Segu. Ver. 3. p. 349. t. 8. f. 5.*
Leaves not spotted: bractes hardly longer than the germ.
- sambucina*. Bulbs somewhat palmate, straight: lip of the nectary ovate, about 3-lobed: spur conic: bractes as long as the flowers.
South of Europe. *Jacq. Aust. 2. t. 108. Segu. Ver. t. 8. f. 5.*
- * *maculata*. Bulbs palmate, spreading: lip of the nectary 3-lobed, flat: spur shorter than the germ: petals spreadings.
Pastures. *Eng. Bot. t. 632. Flor. Dan. t. 933.*
- oderatissima*. Bulbs palmate: lip of the nectary 3-lobed: spur shorter than the germ, widish.
South of Europe. *Jacq. Aust. t. 364. Hall. Helv. t. 29.*
- * *conopsea*. Bulbs palmate: lip of the nectary in 3 very entire segments: spur twice as long as the germ, setaceous.
Pastures: *Eng. Bot. t. 16. Flor. Dan. t. 224.*
- flava*, Bulbs palmate: lip of the nectary in 3 very entire segments: spur filiform, as long as the germ.
Virginia. *Flowers dirty yellow: spike narrow.*
D. *Bulbs fascicled.*
- abortiva*. Bulbs filiform: lip of the nectary ovate, very entire: stem leafless.
Europe. *Jacq. Aust. t. 193. Flowers violet.*
- fuscescens*. Bulbs fascicled: lip of the nectary ovate, toothed at the base: spur as long as the germ.
Siberia. *Gmel. Sib. 1. p. 20. tab. 4. f. 2.*
- Arateumatica*. Bulbs fascicled: lip of the nectary in 2 very entire lobes: spur as long as the germ.
Ceylon. *Upper-lip of the nectary 3 cleft.*
- hyperborea*. Bulbs fascicled: lip of the nectary linear, very entire, truncate: spur as long as the germ.
Iceland. *Retz. obs. 4 t. 3. Flor. Dan. t. 333.*
- fimbriata*. Bulbs fascicled: lip of the nectary 3-parted, fringe-like: spur longer than the germ: petals spreading: leaves oblong.
Newfoundland. *Aiton. kew. 3. p. 297.*

E. *Bulbs unknown.*

- psychoides.* Lip of the nectary 3-parted, fringe-like: spur subulate, as long as the germ.
North America. Segments of the *lip* fringed at top.
- spectabilis.* Lip of the nectary oval, emarginate: spur as long as the germ: stem leafless: leaves oval.
North America. Teeth of the *lip* divaricate.
- tipuloides.* Lip of the nectary in 3 linear nearly equal segments: spur filiform, very long.
Kamtschatka. *Spur* 6 times as long as the petals.
- japonica.* Lip of the nectary, subulate, very entire: spur recurved.
Japan. *Stem* somewhat angular: *leaves* half-clasping.
- falcata.* Spur filiform, very long: leaves sword-shaped, channelled, falcate.
Japan. *Root-leaves* equitant; convolute.
1625. SATYRIUM. *Nectary* consisting of a roundish inflated bag behind the flower.
- * *hircinum.* Bulbs undivided: leaves lanceolate: lip of the nectary 3-cleft; the middle segment very long, linear, twisted.
Pastures. *Eng. Bot. t. 34. Jacq. Austr. t. 367.*
- tabulare.* Bulbs round: stem leafy: lip of the nectary 3-cleft; the middle segment emarginate.
The Cape. *Linn. suppl. 402.*
- trifid.* Bulbs undivided: helmet 1-spurred: lip entire.
The Cape. *Linn. suppl. 402.*
- giganteum.* Bulbs round: stem naked: lip arrow-shaped.
The Cape. *Flowers* large, orange colour.
- aculeatum.* Bulbs round: stem leafy: lip entire, prickly.
The Cape. *Lip* mucicate with white and purple prickles.
- * *viride.* Bulbs palmate: leaves ovate, rather obtuse: lip of the nectary linear, 3-cleft; the middle segment very small.
Pastures. *Eng. Bot. t. 94. Flor. Dan. t. 77.*
- nigrum.* Bulbs palmate: leaves linear: lip of the nectary reversed, undivided.
Alps. *Jacq. Austr. t. 368. Hal. Helv. 1271. t. 27.*
- * *albidum.* Bulbs fascicled: leaves lanceolate: lip of the nectary 3-cleft, acute; the middle segment longest.
Meadows. *Eng. Bot. t. 505. Flor. Dan. t. 115.*

- Epigogium*. Bulbs compressed, toothed: stem sheathed: lip of the nectary reversed, undivided.
Austria, Siberia. *Jacq. Aust. t. 84. Gmel. Sib. 1 t. 2. f. 2.*
- hirtellum*. Bulbs filiform: stem rough-haired: leaves ovate, 3-nerved, petioled, sheathing: nectary spurred; the lip 3-lobed.
Jamaica. *Swarthz. prodr. 118.*
- plantagi-
neum*. Bulbs filiform: stem glabrous: leaves ovate, petioled, sheathing: spur of the nectary thickened; lip 2-lobed, the middle pointed.
Jamaica. *Sloan. Jam. 1. 250. tab. 147. f. 2.*
- adnatum*. Bulbs fascicled: root-leaves oblong, on very long petioles: scape sheathed: nectary spurred, adnate; lip bent down, 2-lobed, emarginate.
West Indies. *Swarthz. prodr. 118.*
- orchioides*. Bulbs fascicled, oblong: leaves broad lanceolate: scape sheathed: nectary spurred; lip lanceolate, pointed.
West Indies. *Swarthz. prodr. 118. Flowers flesh-colour.*
- spirale*. Bulbs fascicled, oblong: leaves linear: scape sheathed: flowers spiral, pointing one way: lip 3-lobed; the middle segment larger and crepulate.
West Indies. *Swarthz. prodr. 118.*
- elatum*. Bulbs fascicled, thick, downy: root-leaves ovate, petioled: stem nearly naked: nectary about 3-lobed.
Jamaica. *Swarthz. prodr. t. 119. Plum. ic. 190.*
- repens*. Bulbs fibrous, creeping: leaves ovate, radical: flowers pointing one way: lip of the nectary undivided.
A'pine woods. *Engl. Bot. t. 289. Lightf. 520. t. 22.*
- capense*. Lip of the nectary wider, obtuse, emarginate, undulate both sides.
The Cape. *Root-leaves linear-lanceolate: spur short.*
- lians*. Helmet of the corol spurred, gaping: nectary ovate: leaves linear, radical.
The Cape. *Helmet with a short spur: lip acute.*
- roban-
choides*. Helmet of the corol 2-lobed at the back, with 2 very short spurs: leaves pointing two ways.
The Cape. *Leaves linear: lip obovate, concave.*
- pedicellatum*. Scape nearly naked: raceme with filiform loose pedicels.
The Cape. *Scape with a single narrow leaf in the middle.*

maculatum, Flowers in close spikes: segments converging, acute: lip with 3 linear very narrow lobes; the middle-lobe longer.

Barbary. *Desfont. Atl.* 319. Leaves spotted.

1626. OPHRYS. - *Nectary* a deflected lip, slightly carinate underneath.

A. *With branched bulbs.*

* *Nidus avis* Bulbs fleshy clustered fibres: stem clothed with scaly sheaths: lip of the nectary cloven.

Woods. *Eng. Bot. t.* 48. *Flor. Dan. t.* 181.

* *corallo-rhiza*. Bulbs branched, flexuous, divaricate: stem clothed with scaly sheaths: lip of the nectary undivided.

Alpine woods. *Lightf.* 523, *t.* 23. *Flor. Dan. t.* 451.

cernua. Bulbs clustered: stem leafy: flowers drooping: lip of the nectary oblong, entire, acute.

Virginia. *Root-leaves* linear, long: *stem* sheathing.

* *ovata*. Bulbs fibrous: stem 2-leaved: leaves elliptic: lip of the nectary linear, cloven.

Pastures. *Curt. Lond. fasc.* 3. *t.* 60. *Flor. Dan. t.* 137.

* *cordata*. Bulbs fibrous: stem 2-leaved: leaves heart-shaped: lip of the nectary 4-lobed.

Spongy heaths. *Eng. Bot. t.* 358. *Moris. f.* 12. *t.* 11. *f.* 4.

B. *With round bulbs.*

* *spiralis*. Bulbs clustered, oblong: stem somewhat leafy: flowers spirally pointing one way: lip undivided; crenulate.

Dry pastures. *Eng. Bot. t.* 541. *Curt. Lond. fasc.* 4. *t.* 59.

lilifolia. Bulbs roundish: stem naked, 3-fided: leaves broad ovate: lip entire: petals linear: germ long, linear.

Virginia. *Ehret. Phil. tranfact.* 1764. *p.* 81. *tab.* 4.

* *Loeselii*. Bulb ovate, rooting at the base: stem naked, triangular: leaves lance-ovate: lip entire: petals linear: germ obovate.

Marshes. *Eng. Bot. t.* 47. *Flor. Dan. t.* 877.

monophyllos. Bulb round: stem naked: leaf ovate: lip of the nectary entire: lateral petals lanceolate: germ ovate.

Prussia. *Loes. Pruff. t.* 57. *Hall. Helv. n.* 1293. *t.* 36.

alata. Bulbs round: stem leafy: leaves lanceolate: lip 3-cleft; the middle segment very short.

The Cape. *Linn. suppl.* 404.

- * *muscifera*. Bulbs roundish, stem leafy : lip 4-lobed, long, a little convex, downy above: column obtuse.
Meadows. *Eng. Bot. t. 64. Hall. Helv. n. 1265. t. 24.*
- * *apifera*. Bulbs roundish: stem leafy: lip convex villous, 5-cleft; the terminal segment recurved and subulate.
Pastures. *Eng. Bot. t. 383. Curt. Lond. fasc. 1. t. 66.*
- aranifera*. Bulbs roundish: stem leafy: lip convex, villous, 4-cleft, rounded at the end with a slight notch, reflected at the sides.
Pastures. *Eng. Bot. t. 65. Curt. Lond. fasc. 6. t. 67.*
- * *monorchis*. Bulbs globular, one of them remote: stem nearly naked: lip and inner petals 3-cleft.
Dry pastures. *Eng. Bot. t. 71. Flor. Dan. t. 102.*
- alpina*. Bulbs ovate: stem naked: leaves subulate: lip undivided, obtuse, with a single tooth each side.
Switzerland. *Flor. Dan. t. 452 Jacq. vind. 295 t. 9.*
- camtschatea*. Stem filiform, sheathed: raceme lax: lip linear, cloven.
Kamtschatka. *Amæn. acad. 2. 361. t. 4. f. 24.*
- * *antikropophora*. Bulbs roundish: stem somewhat leafy: lip in 3 linear parts, the middle-one elongated and cloven.
Pastures. *Eng. Bot. t. 29. Curt. Lond. fasc. 6. t. 66.*
- crucigera*. Bulbs roundish: stem leafy: lip undivided, marked with a convex cross.
France. Probably a variety of *O. apifera*. *Smith.*
- velutris*. Bulbs roundish: leaves oblong, sheathing the stem: lip triangular, arrow-shaped.
The Cape. *First petal lanceolate, erect.*
- bracteata*. Bulbs roundish: spikes mixed with longer bractes; lip 3-lobed.
The Cape. *Upper petal roundish, vaulted.*
- atrata*. Leaves linear-fetaceous: lip hearted, spatulate.
The Cape. *Leaves scattered, half clasping.*
- catholica*. Bulbs fibrous: flowers 3-petalled: helmet inflated, large: lip cross-shaped: stem leafy.
The Cape. *Buxb. cent. 3. p. 12, tab. 21.*
- circumflexa*. Bulbs undivided: flowers 3-petalled; lateral petals emarginate: lip 3-cleft; lateral segments, bent round.
The Cape. *Buxb. cent. 3. p. 8. tab. 13.*

- saffra.* Stem 3-leaved: lip cloven, kidney-form.
The Cape. *Leaves* lanceolate: *flowers* racemed.
- bivalvata.* Flowers clustered: lip lanceolate.
The Cape. Three *upper-petals* nearly equal, ovate.
- alaris.* Lip of the nectary entire, undulate.
The Cape. *First-petal* lanceolate, concave.
- patens.* Leaves subulate: lip very short, capillary.
The Cape. *First-petal* heart-shaped, acute.
- nervosa.* Stem naked, angular: leaves ovate, nerved: lip entire, reflected.
Japan. *Upper-petal* ovate, jointed and reflected in the middle.
- triphylla.* Stem 3-leaved: lip triangular, toothed at the base.
The Cape. *Thunb. prodr.* 2.
- inversa.* Leaves sword-shaped: lip cloven, with entire segments.
The Cape. *Thunb. prodr.* 2.
- bicolor.* Leaves linear-ensiform: lip cloven, with cut segments.
The Cape. *Thunb. prodr.* 2.
- squamata.* Bulbs fascicled: stem long, leafless, spiked: root-leaves imbricate, oblong, acute, carinate: lip 3-cleft, bearded, bent down.
New South Wales. *Forst. flor. aust. n.* 310.
- unifolia.* Bulb ovate: stem round, sheathed: leaf cylindrical, fistular, reflected, perforated in the middle for the passage of the stem.
New Zealand. *Forst. flor. aust. n.* 311.
1627. MALAXIS. *Nectary* of one hollow, heart-shaped erect leaf, embracing the organs of fructification: *corol* reversed.
- spicata.* Stem 4-sided: flowers in spikes.
Jamaica. *Swartz. prodr.* 119.
- paludosa.* Stem 5-sided: leaves numerous, spatulate, rough at top; raceme many-flowered.
Marshes. *Eng. Bot. t.* 72. *Rose. elem. app. t.* 2. *f.* 3.
- umbelliflora.* Stem 5-sided: flowers in umbels.
Jamaica. *Swartz. prodr.* 119.
1628. SERAPIAS. *Nectary* ovate, gibbous underneath, with an ovate lip. *Helleborine.*

- *latifolia*. Leaves ovate, clasping: flowers drooping: lip very entire, pointed, shorter than the petals.
Woods. *Eng. Bot. t. 269. Flor. Dan. t. 811.*
- * *palustris*. Leaves lanceolate, clasping: flowers drooping: lip crenate, obtuse, as long as the petals.
Marshes. *Eng. Bot. t. 270. Flor. Dan. t. 267.*
- * *ensifolia*. Leaves sword-shaped: bractes minute, shorter than the germ: flowers nearly erect: lip entire, half as long as the petals.
Woods. *Eng. Bot. t. 494. Flor. Dan. t. 506.*
- * *grandiflora*. Leaves elliptic-lanceolate: bractes longer than the germ: flowers erect: lip obtuse, entire, rather shorter than the petals.
Woods. *Eng. Bot. t. 271. Hall. Helv. 2. 155. t. 41.*
- nivea*. Leaves lanceolate: flowers loosely racemed, erect: bractes very small, subulate: lip grooved, obtuse, half as long as the petals.
Barbary. *Desfont. Atl. 321. Flowers white.*
- polystachia*. Roots fibrous: stem somewhat divided, jointed: leaves oblong-lanceolate: raceme compound, terminating: lip ovate, recurved.
Jamaica, Hispaniola. *Swartz. prodr. 119.*
- flava*. Roots fibrous: stem somewhat divided, jointed: leaves oblong-lanceolate: racemes compound, axillary: lip erect, pointed.
Jamaica. *Swartz. prodr. 119.*
- * *rubra*. Root creeping: leaves lanceolate, bractes longer than the germ: flowers erect: lip lobed, acute, with elevated undulate lines.
Glostershire. *Eng. Bot. t. 437. Hall. Helv. 2. t. 42.*
- Lingua*. Bulbs roundish, leaves linear-lanceolate: bractes longer than the germ: lip 3-cleft, pointed, smooth, longer than the petals.
South of Europe. *Moris. sect. 12. t. 14. f. 21.*
- cordigera*. Bulbs roundish: leaves linear-lanceolate: bractes longer than the germ: lip 3-cleft, pointed, very large, bearded at the base.
South of Europe. *Rudb. elys. 2. 204 f. 20.*
- capensis*. Stem-leaves sheathing oblong: bractes shorter than the flowers: lip cloven.
The Cape. *Root-leaves* ensiform, folded together.

- erecta.* Leaves ovate, clasping: flowers erect.
Japan. *Thunb. Jap.* 27.
- falcata.* Leaves sword-shaped, convolute, falcate: flowers erect.
Japan. *Thunb. Jap.* 28.
- regularis.* Bulbs ovate, fibrous: leaves sheathing, sword-shaped, carinate: stem erect, spiked: petals 6.
New Zealand. *Forst. char. gen. t.* 49. *Thelymitra.*
1629. LIMODORUM. *Neottia* 1-leaved, concave, pedicelled, within the lowest petal.
- tuberosum.* Flowers somewhat spiked, bearded.
North America. *Curt. Mag. t.* 116.
- Tankervillei.* Flowers beardless, in racemes.
China. *Aiton. kew. 3. p.* 302. *tab.* 12.
- altum.* Flowers beardless: spikes somewhat panicled.
West Indies. *Mill. fig. t.* 145. *Mart. cent. t.* 50.
- utriculatum.* Root tuberous: root leaves twin sheathed; radical sheath inflated: scape sheathed: flowers sessile.
West Indies. *Swartz. prodr.* 119.
- gentianoides.* Root tuberous: leafless, stem sheathed: flowers peduncled.
West Indies. *Swartz. prodr.* 119.
- monile.* Stem round, striate, jointed like a necklace, simple: leaves linear, acute.
Japan. *Thunb. Jap.* 30. *Kämpf amæn. t.* 864.
- virens.* Root scaly: stem branched, spotted: bractes acute: flowers remote, greenish-yellow.
East Indies. *Roxb. Coromand. 2. p.* 32. *tab.* 38.
- recurvum.* Root tuberous: stem bending, nodding, shorter than the leaves: leaves broad lanceolate, 5 nerved: spike globular, nodding.
East Indies. *Roxb. Coromand. 3. p.* 33. *tab.* 39.
- nutans.* Root tuberous: stem curved, longer than the leaves: leaves ovate, 5-nerved: spike oblong, pendulous.
East Indies. *Roxb. Coromand. 2. p.* 33. *tab.* 40.
- apophyllum.* Leafless root tuberous: flowers solitary, naked, sessile.
East Indies. *Roxb. Coromand. 2. p.* 34. *tab.* 41.

1630. EPIDENDRUM. *Nectary* turbinate, oblique, reflected : *corol* spreading, without spur.

- Vanille*. Leaves ovate-oblong, nerved, sessile, cauline: tendrils spiral.
West Indies. *Blackw. t. 590. Catech. Car. 3. t. 7.*
The dried pods are sold under the name of *Vanilloes*.
- Flos æris*. Stem columnar, somewhat branched, climbing: leaves lanceolate: petals linear, obtuse.
Java. *Kämpf. amœn. t. 869. f. 1.*
- tenuifolium*. Leaves on the stem, subulate, channelled.
Malabar. *Rheed. Mal. 12. tab. 5.*
- spatulatum*. Leaves on the stem, oblong, alternate, obtuse, veinless: lip of the nectary bifid, divaricate.
East Indies. *Rheed. Mal. 12. t. 3. Rumph. Amb. 6. t. 44. f. 1.*
- furvum*. Caulescent: leaves imbricate, lanceolate: racemes axillary.
East Indies. *Rumph. Amb. 6. t. 44. f. 1.*
- coccineum*. Leaves on the stem, ensiform, obtuse: peduncles 1-flowered, axillary, crowded.
America. *Jacq. Amer. 29. t. 135. pict. t. 205.*
- secundum*. Leaves on the stem, oblong, emarginate: stem compressed: spike pointing one way: tube of the nectary as long as the corol.
America. *Jacq. Amer. t. 137. pict. t. 207, 208.*
- lineare*. Leaves on the stem, 2-rowed, linear, obtuse, emarginate: stem simple: flowers terminal, spike-form, lip entire.
America. *Jacq. Amer. t. 131. f. 1. pict. t. 201.*
- punctatum*. Leaves lanceolate, nerved: sheaths imbricate: stem paniced, dotted: corols dotted.
America. *Plum. spec. 9. ic. t. 187.*
- caudatum*. Leaves lanceolate, nerved: stem paniced: petals spotted, tailed, two of them very long.
America. *Plum. spec. 9. ic. 177.*
- ovatum*. Leaves on the stem, ovate, acute, clasping, nerved: stem paniced.
India. *Rheed. Mal. 12. t. 7. Rumph. amb. 6. t. 43. f. 1.*
- ciliare*. Leaves oblong, veinless: lip of the nectary 3-parted, ciliate; the middle segment linear: stem 2-leaved.
America. *Curt. Magaz. t. 463. Bractes spotted.*

- nocturnum*. Leaves oblong, veinless: lip of the nectary 3-parted, very entire; the middle segment linear: stem many-leaved.
America. *Catesby Car.* 2. t. 68. *Jacq. Amer.* t. 139.
- cucullatum*. Stem 1-flowered: leaves subulate: lip of the nectary ovate, pointed, ciliate: petals elongated.
West Indies. *Curt. Magaz.* t. 543. *Plum. ic.* 179. f. 1.
- teres*. Stem sheathed, decumbent: leaves cylindrical.
Japan. *Thunb. Jap.* 30.
- nodosum*. Leaf single, nearly radical: spadix about 4 flowered.
West Indies. *Sloan. Jam.* 1. t. 121. f. 3. *Jac. Amer.* t. 140.
- carinatum*. Leaves oblong, obtuse, compressed, jointed.
Philippine isles. *Pet. gaz.* t. 44. f. 10.
- aloifolium*. Leaves oblong: obtuse, broader at the top.
Malabar. *Curt. Magaz.* t. 387. *Rheed. Mal.* 12. t. 8.
- guttatum*. Leaves lanceolate, channelled: petals wedge-shaped, retuse.
West Indies. *Sloan. Jam.* 1. tab. 148. f. 2.
- juncifolium*. Leaves subulate, grooved: stem and petals dotted: lip without dots, dilated.
West Indies. *Plum. spec.* 9. ic. 184. f. 2.
- scriptum*. Leaves ovate-oblong, 3-nerved: flowers racemed, spotted.
Amboina. *Rumph. Amb.* 6 95. tab. 42.
- retusum*. Leaves linear, retuse at the end, 2-rowed: flowers racemed, spotted.
Malabar. *Rheed. Mal.* 12. t. 1. *Rudb. elys.* 2. t. 5.
- amabile*. Leaves broad lanceolate, veinless: lateral petals orbicular.
East Indies. *Rumph. Amb.* 6. tab. 42.
- cochleatum*. Leaves oblong, double, glabrous, striate, growing on the bulb: scape many-flowered: nectary heart-shaped.
America. *Curt. Magaz.* t. 572. *Catesby Car.* 2. t. 88.
- zuberofum*. Leaves broad lanceolate, nerved, membranaceous, growing on the bulb: scape sheathed: nectary boat-shaped, cloven.
America. *Plum. spec.* 9. ic. 186. f. 2.
- pusillum*. Leaves sword-shaped, somewhat fleshy: scape few-flowered.
Surinam. *Rept* fibrous: capsule spherical, ribbed.

- ensifolium*. Stem round, smooth: leaves sword-shaped: petals lanceolate: lip lanceolate, recurved, dotted.
Japan. *Smith. specil.* 2. t. 24. *Banks. Kämpf.* t. 3.
- opbioglossoides*. Stem 1-leaved: flowers racemed, pointing one way.
America. *Jacq. Amer.* t. 133. f. 2. *piet.* t. 211.
- rufisfolium*. Stem 1-leaved: flowers from the sinus of the leaf, clustered.
America. *Jacq. Amer.* t. 133. f. 3. *piet.* t. 212.
- graminifolium*. Stem 1-leaved: flowers from the sinus of the leaf, in pairs.
America. *Plum. spec.* 9. ic. 176. f. 1.
- capense*. Scape naked: leaves imbricate, 2-rowed, linear, obtuse: flowers pointing one way, with a very long spur.
The Cape. Probably a species of *Limodorum*.
- fistatum*. Stems simple: leaves oval: peduncle terminal, elongated, scaly: lip of the nectary 5-lobed; the middle-lobe minute.
America. *Smith. specil.* 2. 21.
- septentrionale*. Leaves from a bulb and from the root, sword-shaped: stalk radical, sheathed, many-flowered: germ 3-winged: lip as long as the petals.
Jamaica. *Smith. ic. rar. tab.* 14.
- Darwinianum*. Leaves broad-lanceolate, nerved, arising from a bulb: peduncles radical, mostly 1-flowered: lip fringed: column with a cover.
Jamaica. *Smith. ic. rar. tab.* 15.
- claviculatum*. Stem climbing, round, branching: leaves sessile, half clasping, acute, concave, recurved, rigid.
Jamaica. *Sloam. Jam.* 2. tab. 224. f. 3, 4.
- racemosum*. Stem much branched, shrubby: leaves linear, emarginate: racemes terminal, compressed.
America. *Jacq. Amer.* t. 132. *piet.* t. 202.
- nuttanum*. Stem simple: leaves ovate-lanceolate, nerveless, clasping; spike terminal, nodding: lip 3-lobed; the middle lobe 3 toothed.
West Indies. *Savartz. prodr.* 121.
- umbellatum*. Stem simple: leaves ovate, emarginate, clasping, veinless; flowers terminal, in umbels.
Jamaica. *Jacq. Amer.* t. 136. E. difforme?
- anceps*. Leaves heart-lanceolate, clasping, horizontal: raceme terminal, compressed, 2-edged, a little flexuous; flowers 2-rowed. inner-petals capillary; lip 3-lobed.
West Indies. *Savartz. prodr.* 121.

- rigidum*. Leaves oblong, obtuse, sheathing: racemes terminal, 2-edged: flowers 2-rowed, larger than the sheaths: lip entire, heart-ovate, acute.
Jamaica. *Jacq. Amer. t. 134. pict. t. 204.*
- diffusum*. Leaves oblong, clasping: stem 2-edged: panicle terminal, much branched, diffuse: lip entire, pointed.
West Indies. *Swartz. prodr. 121.*
- montanum*. Leaves lanceolate, flat, recurved, spreading, somewhat membranaceous: raceme terminal, simple, flowers pointing one way: lip 3 cleft.
West Indies. *Swartz. prodr. 121.*
- ferrulatum*. Stems aggregate, about 2 leaved: leaves lanceolate, carinate, ferrulate: raceme terminal: flowers 2 rowed.
West Indies. *Swartz. prodr. 121.*
- teretifolium*. Leaves semicylindrical: stem 1 flowered: lip 3-sided at the tip.
West Indies. *Swartz. prodr. 121.*
- globosum*. Leaves cylindrical, channelled: flowers terminal, mostly solitary: lip ovate, acute: capsules globular.
America. *Jacq. Amer. t. 133. f. 1. pict. t. 203.*
- fertularioides*. Stem filiform, creeping, jointed: leaves lanceolate: peduncles 1-flowered, from radical sheaths.
Jamaica. *Swartz. prodr. 122.*
- testae-folium*. Stem creeping: leaves incumbent, elliptic, concavo-convex, carinate: flowers sessile under the leaves.
Jamaica. *Swartz. prodr. 122.*
- undulatum*. Leaves elliptic, acute; scape farmentous, much branched; petals ovate, with claws, obtuse: lip dilated, emarginate, waved.
Jamaica. *Sloan. Jam 1. 250. tab. 148. f. 1.*
- variegatum*. Leaves lanceolate, carinate, grooved, with cartilaginous serratures: sheaths imbricate: scapes sheathing, with a simple raceme, leaves cruciate, 2-lobed.
America. *Plum. ic. 177. tab. 182 f. 2.*
- utricularioides*. Leaves lanceolate, marked with lines, flat: scape panicled: lip large, heart-shaped: spur very short.
West Indies. *Swartz. prodr. 122.*
- triquetrum*. Leaves 3-sided, cultrate, compressed at the tip, lanceolate, acute: scape simple: lip heart-shaped, ovate, emarginate at the sides.
West Indies. *Swartz. prodr. 122.*

- sessile.* Leaves compressed at the base, broader at top, lance-linear, obtuse, veinless: peduncles very short, radical, 1-flowered.
Jamaica. *Swartz. prodr.* 122.
- strobiliforme* Leaves compressed at the base, dilated at top, lanceolate, acute, flat, nerved: peduncles 1-flowered, elongated.
West Indies. *Swartz. prodr.* 123.
- subulatum.* Leaves subulate, grooved: peduncles sheathed, radical, many-flowered.
Jamaica. *Swartz. prodr.* 123.
- satyrioides.* Leaves cylindrico subulate: scape few-flowered: corols inflated at the base in front.
West Indies. *Swartz. prodr.* 123.
- tribuloides.* Leaves pedicelled, lanceolate, obtuse, emarginate: peduncles very short: capsules globular, prickly.
West Indies. *Swartz. prodr.* 123.
- corniculatum* Leaves pedicelled, wedge-shaped, oblong: peduncles radical, 1-flowered: corols pointed, curved.
West Indies. *Swartz. prodr.* 123.
- Lanceola.* Leaves pedicelled, lanceolate, acute: peduncles from radical sheaths, 2-flowered.
Jamaica. *Swartz. prodr.* 123.
- angustifolium.* Leaf linear, growing from the bulb: scape panicked.
West Indies. *Swartz. prodr.* 123.
- palmifolium* Leaves broad-lanceolate, nerved, membranaceous: growing from the bulb: peduncles radical, sheathed, many-flowered: nectary boat-shaped, entire, reflected.
Jamaica. *Swartz. prodr.* 123.
- fragrans.* Leaf broad-lanceolate, growing from the bulb, nerveless: scape many-flowered, short: lip heart-shaped.
Jamaica. *Curt. Magaz. t.* 152. *E. Cochleatum.*
- altissimum.* Leaves lanceolate, from the bulbs: scape much branched, farmentous: petals oblong, lanceolate, acute: lip obcordate, shorter than the petals.
America. *Jacq. Amer. t.* 141. *pic. t.* 215.
- sanguineum.* Leaves in pairs, oblong, from the bulbs: scape many-flowered, a little flexuous: lip roundish, waved, emarginate: spur adnate.
Jamaica. *Sloan. Jam. t.* 250, *tab.* 121

- labiatum*. Leaves radical, oblong: middle-bulb solitary, 1-leaved: scapes few-flowered: lip oblong, with a fleshy protuberance at top.
West Indies. *Swart. prodr.* 124.
- polybulbon*. Stem creeping, bearing bulbs: bulbs 2-leaved, 1-flowered: flower peduncled: lip heart-shaped.
West Indies. *Swart. prodr.* 124.
- proliferum*. Caulescent: leaves 2-rowed, somewhat imbricate, ovate: bulbs from the sheaths of the leaves, 2-leaved: flowers axillary.
West Indies. *Swart. prodr.* 124.
- vestitum*. Stem leafless, imbricate all round with sheaths, roundish, bearing bulbs: bulbs growing on the leaf: flowers crowded, from the sheaths of the stem.
Jamaica. *Swart. prodr.* 124.
- vomiforme*. Caulescent: leaves growing from the bulbs, ovate pointed, convex, channelled, 3-sided underneath: scapes from the bosom of the leaves.
West Indies. *Swart. prodr.* 124.
- echinocarpon*. Stem compressed, decumbent, 1-flowered, leaves imbricate all round, 2-rowed, ovate: capsules prickly.
Indies. *Aubl. Guian.* 818. t. 322, *Limodorum*.
- trichocarpon*. Stem compressed, round, rooting: leaves imbricate all round, 2-rowed, linear: capsules downy.
West Indies. *Swart. prodr.* 124.
- glaucum*. Stem compressed, nearly erect, many-flowered: leaves imbricate all round, 2-rowed, broad-lanceolate, glabrous, glaucous underneath: capsules naked.
West Indies. *Swart. prodr.* 124.
- graminoides*. Stem erect, compressed, many-flowered: leaves imbricate all round, 2-rowed, remote, linear, peduncles shorter.
West Indies. *Swart. prodr.* 125.
- micranthum*. Stem 1-leaved: leaf broad lanceolate: raceme very long, filiform: flowers pointing one way, roundish, 6-angled.
West Indies. *Swart. prodr.* 125.
- trigoniflorum*. Stem 1-leaved: leaf oblong-lanceolate: racemes as long as the leaf: flowers mostly pointing one way, 3-sided.
America. *Jacq. Amer. t.* 133. f. 3. *pic. t.* 211. ?
- racemiflorum*. Stem 1-leaved: leaf ovate: raceme longer than the leaf: flowers pointing one way: inner-petals ovate.
West Indies. *Swart. prodr.* 125.

- alpestre*. Stem 1-leaved: leaf ovate-lanceolate: racemes lax: capsules with prickly keels.
Jamaica. *Swart. prodr.* 125.
- laxum*. Stem 1-leaved: leaf oblong: raceme as long as the leaf: inner-petals subulate: lip ovate: capsules naked.
West Indies. *Swart. prodr.* 125.
- ovale*. Stem 1-leaved: leaf ovate, pointed: raceme condensed, many-flowered: petals roundish; inner-ones remote in front at the base: capsules pedicelled.
West Indies. *Swart. prodr.* 125.
- pulchellum*. Stem 1-leaved: leaf roundish, acute, raceme lax, few-flowered: petals pointed, ciliate; the inner-one crossed at the tip.
West Indies. *Swart. prodr.* 125.
- tridentatum* Stem 1-leaved: leaf ovate, acute, 3-toothed at top: raceme many-flowered; flowers 3-sided, pointed: petals of the nectary erect, curved inwards.
West Indies. *Swartz. prodr.* 125.
- cochlearifolium*, Stem 1-leaved: leaf orbicular, concavo-convex: raceme few-flowered.
Jamaica. *Swart. prodr.* 126.
- funale*. Leafless, filiform, rooting: peduncle 2 flowered: lip 2-lobed: spur very long, subulate.
West Indies. *Swart. prodr.* 126.
- filiforme*. Leafless, filiform, rooting: peduncles about 3-flowered: lip ovate: spur very short, bearded at the tip.
Jamaica. *Swart. prodr.* 126.
- concretum*. Leaves radical, lanceolate, acute: nectary concrete with the petals.
America. *Jacq. Amer.* 228.
- Cebolleta*. Leaf solitary, radical, subulate: knot rooted: raceme compound.
America. *Jacq. Amer.* t. 131. f. 2. *piB.* t. 217.
- spatulatum* Leaves 2-rowed, alternate, approximate, præmorse, with a double lip, coriaceous, hardly a foot long.
East Indies. *Ret. obs.* 643.
- variegatum* Leaves alternate, spreading, sheathing, ovate, acute, 3-nerved, undulate, glabrous, variegated.
East Indies. *Rumph. Amb.* 6. t. 41. f. 3. ?

- Calceolaria*. Leaves 2-rowed, alternate, remote, much spreading, subulate, thick, glabrous.
East Indies. Retz. obs. 6. 45.
- hexandrum*. Leaves 2 rowed, alternate, spreading, nearly sessile, ending in sheaths, somewhat remote, lanceolate, emarginate with a point, rigid.
East Indies. Retz. obs. 6. 45.
- Ophrydis*. Leaves alternate, sheathing, erect and spreading, ovate, acute, entire, nerved, glabrous, a little bulbed on the surface, membranaceous, shorter than the scape, ending in tubular carinate glabrous sheaths.
East Indies. Retz. obs. 6. 46.
- supplex*. Leaves crowded, sword-shaped, sheathing, compressed, very entire, acute, glabrous, fleshy.
East Indies. Retz. obs. 6. 47.
- orchideum*. Leaves 2-rowed, alternate, sessile, spreading, lanceolate, very entire, acute, glabrous, fleshy, rigid.
East Indies. Retz. obs. 6. 48.
- pusillum*. Shoots fascicled, appressed, a span long: racemes solitary, simple, erect, compressed, naked at bottom, denticulate towards the top.
East Indies. Retz. obs. 6. p. 49.
- complanatum*. Leaves alternate, sessile, spreading, linear crescent-shaped, retuse, glabrous, upper-surface concave, under-surface carinate, fleshy.
East Indies. Retz. obs. 6. 50.
- clavatum*. Leaves alternate, sessile, spreading, linear-clavate, with 2 unequal teeth at the end, glabrous, flat, with a large nerve, depressed above, permanent beneath.
East Indies. Retz. obs. 6. 50.
- subulatum*. Leaves alternate, erect, sessile, subulate, cylindrical, glabrous, acute; sheaths obtuse, marginal, glabrous, with small dark-purple spots, short.
East Indies. Retz. obs. 6. 51.
- nudum*. Stemless: peduncles simple, 1-flowered, with 2 or 3 glabrous membranaceous tubular sheaths investing the younger peduncles with an oblique mouth, caducous.
East Indies. Retz. obs. 6. 52.

- omentosum*. Leaves from the bulbs, mostly 4, rarely 2 or 3, alternate nearly erect, 2-rowed at the base, half sheathing the bulb, oblong, entire, acute, concave, recurved at the tip, glabrous, 8-nerved, fleshy.
East Indies. *Retz. obs.* 6. 53.
- bidentatum*. Leaves sheathing each other, 3—5, sword-shaped, 2-rowed, sessile, entire, with 2 sharp denticles at top, glabrous both sides, carinate on the back.
East Indies. *Retz. obs.* 6. 54.
- lycopodioides*. Stems crowded at the roots, pendulous, simple, compressed; leaves alternate, 2-rowed, sheathing each other at the base, appressed above by the sheaths, lanceolate, acute, slightly margined, fleshy.
East Indies. *Retz. obs.* 6. 55.
- longiflorum*. Leaves growing from the bulbs, solitary, slightly petioled, erect, lance-rette, entire on the margin, recurved, glabrous, fleshy, rigid, brittle.
East Indies. *Retz. obs.* 6. 55.
- flabellum*. Leaves solitary, one from each bulb, erect, petioled, lance-oblong, entire, emarginate, slightly recurved, obscurely nerved, glabrous, fleshy, rigid.
East Indies. *Retz. obs.* 6. 57.
- aronicum*. Leaves alternate, somewhat 2-rowed, sessile, spreading, lanceolate, flattish, smooth above and slightly streaked with 5 more eminent nerves, beneath smooth with a small groove along the midrib, but no nerves, emarginate, fleshy, rigid.
East Indies. *Retz. obs.* 6. 58.
- plantaginifolium*. Leaves 2-rowed, sheathing each other, erect, linear-triangular, slightly channelled, rather acute, glabrous, fleshy, narrow at the base next the sheaths.
East Indies. *Retz. obs.* 6. 60.
- sessile*. Leaves scattered, from the sessile bulbs, spreading, slightly petioled, retuse, above smooth and a little channelled, beneath convex fleshy.
East Indies. *Retz. obs.* 6. 60.
- lilifolium*. Leaves from the bulbs, somewhat petioled, erect at the base, more spreading at the tip, linear lanceolate, rather acute, glabrous, carinate on the back, membranaceous, hardly rigid.
East Indies. *Retz. obs.* 6. 61.

- calceolaria-terrestre.* Leaves spreading, 2-rowed, sessile, ending in sheaths, oblong-lanceolate, entire, slightly and obliquely emarginate, above smooth shining, beneath glabrous with 9—14 nerves. rigid, the upper-ones longer and narrower.
East Indies. *Retz. obs.* 6. 63.
- Floeris?* Leaves from bulbs, ovate-oblong, acute, flat, fleshy.
East Indies. *Retz. obs.* 6. 64.
- triflor.* Leaves cylindrical, empty; sheaths fistulous; peduncles opposite the leaves corymbed, perforating the sheath: lip entire, spatulate-hearted.
South Sea Islands. *Forst. Flor. aust. n.* 314.
- crispatum.* Leaves on the stem, round, filiform, slightly incurved, empty, sessile, raceme quite simple: lip with the middle-segment revolute, waved, crenate.
South Sea Islands. *Forst. Flor. aust. n.* 315.
- equitans.* Leaves equitant, ensiform-compressed, carinate, pointed: scape naked: raceme spiked, nodding, filiform.
South Sea Islands. *Forst. Flor. aust. n.* 316.
- epysurus.* Leaves sheathing at the base, obliquely divaricate, linear, obtuse, channelled: scape naked: raceme spiked, nodding, filiform.
South Sea Islands. *Forst. Flor. aust. n.* 317.
- biflorum.* Leaves 2-rowed, linear-lanceolate, acute: peduncles 2-flowered, solitary, perforating the sheaths: lip 3-cleft, pointed.
South Sea Islands. *Forst. Flor. aust. n.* 318.
- autumnale.* Leaves on the stem, lanceolate, nerved, crowded, sheathing: peduncles terminal, scaly, paniced: lip erect, retuse.
South Sea Islands. *Forst. Flor. aust. n.* 319.
- Fasciola.* Leaves rooting, parasitical, clustered, linear, waved: scapes several, racemed: lip slipper-shaped, with a spur.
South Sea Islands. *Forst. Flor. aust. n.* 320.
- umbellatum.* Runners creeping: leaves oval, fleshy: petioles fixed into angular-keeled apophyses: scape rooted: umbel simple, 1-sided: lowest petals elongated.
South Sea Islands. *Forst. Flor. aust. n.* 321.
- resupinatum.* Leaves on the stem, petioled, ovate, pointed, entire, plaited, carinate, 5-nerved: raceme simple, spiked: flowers reversed: lower-lip toothed.
South Sea Islands. *Rheed. Mal.* 12. t. 27.

- Chrysocolum.* Leaf radical, roundish, hearted, hooded at the base, reflected and acute at the tip: scape nearly erect, racemed: lower-lip orbicular, emarginate, very large.
South Sea Islands. *Forst. Flor. aust. n. 323.*
- striatum.* Scape angular, glabrous: leaves sword-shaped. nerved; petals lanceolate: lip oblong, flat.
Japan. *Thunb. Jap. 28.* Capsule a little twisted.
- testellatum.* Leaves imbricate, alternate, 2-rowed, linear, channelled, fleshy, rigid, 2 or 3-toothed at the end: raceme axillary, naked, as long as the leaves: petals crenate, testellate: lip as long as the petals.
East Indies.. *Roxb. Coromand. 1. p. 34. t. 42.*
- præmorsum.* Leaves alternate, 2-rowed, linear, channelled, rigid, præmorse; jointed above the base: spike scaly, opposite, the leaf, many-flowered: bractes triangular.
East Indies. *Roxb. Coromand. 1. p. 34. t. 43.*
- pendulum.* Leaves radical, alternate, 2-rowed, linear-lanceolate, emarginate: scapes radical, in scaly sheaths: racemes pendulous, many-flowered: lip 3 parted.
East Indies. *Roxb. Coromb. 1. p. 35. tab. 43.*

1631. CYPRIPIEDUM. *Nectary* 2-lipped; the lower lip large, swelling, and hollow.

Ladies Slipper.

- * *Calceolus.* Roots fibrous: stem leafy: petals 4, lanceolate, pointed: upper-lip elliptic, channelled.
Woods. *Eng. Bot. t. 1. Linn. trans. 1. p. 76. t. 2. f. 1.*
- parviflorum* Root fibrous: stem leafy: petals 4, lanceolate, pointed, undulate at the margins: upper-lip arrow-shaped, channelled.
Virginia. *Linn. trans. 1. t. 2. f. 2.* Upper lip triangular, acute.
- bulbosum.* Bulb roundish: leaf radical, solitary, ovate: petals 5, lanceolate, all pointing upwards: lower-lip as long as the petals.
Siberia, Lapland, *Smith spec. t. 11. Gmel. Sib. 1. t. 2. f. 1.*
- japonicum.* Stem 2-leaved: leaves clasping, sinuate-waved, acute, nerved.
Japan. *Thunb. Jap. 30.*
- pedicellabile* Roots fibrous: stem leafy: petals 4, ovate, obtuse: upper-lip oval, hearted; lower-lip longer than the petals.
North America. *Curt. Mag. t. 216. Linn. trans. 1. t. 3. f. 3.*

humile. Root fibrous: leaves radical: petals 4, lanceolate: upper-lip rhombic, pointed; lower-lip longer than the petals.
Nova Scotia. *Curt. Mag. t. 192, Linn. trans. 1. t. 3 f. 4.*

1632. ARETHEUSA. *Nectary* 1-leaved, tubular, within the bottom of the corol; the lower-lip united to the styles.

bulbosa. Root globular: scape sheathed: sheath 2-leaved.
North America. *Pluk. mant. t. 348. f. 7.*

ophioglossoides. Root fibrous: leaf of the scape oval: spatheaceous; leaflet lanceolate.
North America. *Pluk. alm. t. 93. f. 2.*

divaricata. Root somewhat palmate: leaf of the scape and leaflet of the spathe lanceolate.
North America. *Catesby Carolin. 1. tab. 58.*

capensis. Bulb round: stem 2 leaved, simple, 1-flowered.
The Cape, *Outer-petals* longer, tailed.

villosa. Bulb round: leaves ovate, ciliate, pubescent.
The Cape. *Linn. suppl. 405.*

ciliaris. Root fleshy: leaf kidney-form, orbicular: lip ciliate.
The Cape. *Bulb* double, longish: *germ* hairy.

biplumata. Scape sheathed: spathe hooded: 2 lower-petals elongated, bearded on the upper-side.
North America. *Smith icon. ined. tab. 23.*
Root leaves linear-lanceolate, acute, equitant; stem-leaves membranaceous, acute, sheathing: *flowers* terminal, purple.

1633. DIURIS. *Nectary* dependent: petals 9; the 5 outer-ones very large, of two shapes: column of the fructification reversed, with a lid at top.

formosa. Diuris.
Australasia. *Smith. Linn. trans. 4. p. 222.*
Seape leafy at the base: *flowers* racemed, spathaceous.

1634. CRANICHIS. *Nectary* vaulted, ovate, gibbous, slightly carinate, entire at the tip.

aphylla. Bulbs fascicled, columnar; acute: scape nearly naked: petals converging.
Jamaica. *Sawart. prodr. 120.*

oligantha. Bulbs fascicled, clavate: leaves petioled, oblong, pointed, shining; scape nearly naked: spike filiform: petals converging.

Jamaica. *Swart. prodr.* 120.

diphylla. Bulbs fascicled, filiform, naked: leaves petioled, heart-shaped, pointed, a pair: scape nearly naked.

Jamaica. *Swartz prodr.* 120.

bachyodes. Bulbs fascicled, cylindrical, obtuse: leaves petioled, ovate, pointed: scape sheathed: spike columnar: petals revolute.

Jamaica. *Swart. prodr.* 120.

muscosu Bulbs fascicled, filiform, downy: root-leaves petioled, ovate; stem-leaves sheathed: nectary dotted within.

Jamaica. *Swart. prodr.* 120.

1635. DISA. *Spathe* 1-valved: *petals* 3; the third less, 2-parted, gibbous at the base.

grandiflora. Spur shorter than the petals: stem about 2-flowered.

The Cape. *Bergm. Cap. tab.* 4. f. 7.

racemosa. Spur shorter than the petals: flowers racemed.

The Cape. *Linn. suppl.* 406.

longicornis. Spur longer than the petals: scape 1-flowered.

The Cape. *Linn. suppl.* 406. Flowers blue.

maculata. Spur conical, very short: scape 1-flowered.

The Cape. *Root leaves* oblong: *stem and sheath* covered with red spots: *flowers* blue.

1636. FORSTERA. *Calyx* double; the outer inferior, 3 leaved, inner superior, 6-cleft: *corol* tubular: *berry* inferior, 1-celled, 1-seeded.

edifolia. Forstera.

New Zealand. *Forst. AB. Ups.* 3. p. 184. t. 9.

Stem herbaceous, ascending: *leaves* imbricate, sessile, obovate, entire, appressed, reflected at top: *peduncles* solitary, 1-flowered, terminal, erect, red: *flowers* white, with the throat red.

1637. GUNNERA. *Calyx* 2-toothed: *corol* 0: *drupe* somewhat fleshy, crowned with the calyx growing to it.

fabra. Leaves lobed, longer than the scape: scape and petioles prickly.

Chili. *Feuil. chil.* 2. 741. t. 30. Panke.

GYNANDRIA. TRIAND. HEXAND. 1638, 1639. 1519

- perpensa.* Leaves kidney-form, toothed, shorter than the scape in fruit: scape and petioles smooth.
The Cape. *Pluk. alm.* 68. t. 18. f. 2, Blitum.
- plicata.* Leaves kidney-form, crenate, longer than the scape in fruit: scape and petioles smooth.
Magellan's straits. *Lam. illust.* t. 101. f. 2. Leaves plaited:

ORDER II. TRIANDRIA.

1638. SALACIA. *Pistil* 1: *calyx* 5-parted: *corol* 5-petalled: *anthera* seated on the tip of the germ.

- obinensis.* Stem shrubby: leaves very entire, alternate: flowers several, axillary.
Chili. *Branches* angular, divaricate: *leaves* oval.
- cochinchi.* Stem shrubby: leaves slightly serrate, opposite: flowers crowded, axillary.
nensis. Cochinchina. *Branches* twisted: *flowers* reddish-yellow: *berry* roundish, reddish, eatable: *calyx* coloured.

ORDER III. HEXANDRIA.

1639. ARISTOLOCHIA. *Stigmata* 6: *calyx* 6: *corol* 1-petalled, tubular, tongue-shaped: *capsule* inferior, 6-celled.
Brithwort.

- bilobata.* Leaves 2-lobed: stem twining.
West Indies. *Plum. Amer.* 91. t. 106. Peduncles 1-flowered.
- trilobata.* Leaves 3-lobed: stem twining: flowers very large, swelling at the base; tongue linear, very long.
South America. *Jacq. obs.* 1. p. 8. tab. 3.
- pentandra.* Leaves hearted, somewhat 3-lobed in a halbert-shaped manner: stem twining: bractte heart-shaped, clasping.
America. *Jacq. Amer.* t. 147. *piet.* t. 224.
- peltata.* Leaves kidney-shaped, somewhat peltate: stem twining.
South America. *Jacq. obs.* 1. t. 4. *piet.* t. 222.
Corol hairy, dotted outwardly: *peduncles* 1-flowered.
- maxima.* Leaves oblong, pointed: stem twining: peduncles many-flowered.
New Spain. *Jacq. Amer.* t. 146. *piet.* t. 223.
Flowers curved: *fruit* opening at the base.
- bilabiata.* Leaves hearted, tongue-shaped, obtuse: stem twining: *corol* 2-lipped.
America. *Plum. ic.* 32. f. 1. Peduncles 1-flowered.

- erecta*. Leaves lanceolate, sessile, a little hairy: stem erect: peduncles solitary, 1-flowered: flowers very long.
Vera-Cruz. *Flowers* dark purple, near 4 inches long.
- arborescens*. Leaves heart-lanceolate: stem erect, shrubby.
America. *Pluk. alm. t. 78. f. 1. ?* Peduncles solitary.
- caudata*. Leaves heart-shaped, pointed; emarginate at the tip, the lobes at the base incumbent: lip of the corol ending in a setaceous tail.
America. *Jacq. Amer. t. 145.* Stem twining.
- odoratissima*. Leaves heart-shaped: stem twining, shrubby: peduncles solitary: lip of the corol very large.
America. *Sloan. Jam. 1. p. 162. tab. 104. f. 1.*
- Sipho*. Leaves heart-shaped, petioled: flowers solitary, with a 3 cleft equal border: bracte ovate: stem twining, shrubby.
North America. *L'Herit. stirp. nov 1. p. 13. t. 7.*
- anguicida*. Leaves heart-shaped, pointed: stem twining, shrubby: peduncles solitary: stipules heart-shaped.
Indes. *Jacq. Amer. t. 144. Moris. sect. 12. t. 17. f. 7.*
- Maurorum*. Leaves halbert-shaped, very entire: stem weak, simple: flowers solitary, recurved.
Mauritania. *Moris. sect. 12. t. 17. f. 11. Rau. it. t. 23.*
- indica*. Leaves heart-shaped, rather acute: stem twining: peduncles many-flowered.
East Indies. *Rheed. Mal. 8. p. 48. tab. 25.*
- batica*. Leaves heart-shaped, rather acute: stem twining: peduncles about 3 together, longer than the petiole.
Spain. *Moris. 3. sect. 12. t. 17. f. 6.* Flowers crooked.
- semperwrens*. Leaves heart-oblong, pointed, undulate: stem weak: flowers solitary.
Italy. *Moris. sect. 12. t. 17. f. 16. Sabb. hort. 2. t. 82.*
Stems angular: flowers curved, longer than the leaves.
- serpentaria*. Leaves heart-oblong, flat: stem weak, flexuous, round: flowers solitary.
North America. *Catesb. Car. 1. t. 29. Woodw. t. 106.*
The Root is the *Serpentaria* or *Snake-root* of the shops.
- Pistolochia*. Leaves heart-shaped, crenulate, reticulate underneath, petioled: flowers solitary.
Spain, South of France. *Park. theat. 292. f. 7.*
Roots round: lip of the corol incurved.

- rotunda.* Leaves heart shaped, nearly sessile, obtuse: stem weak: flowers solitary.
South of Europe. *Blackw. t. 256. Sabb. hort. 2. t. 80.*
Roots roundish: lip of the corol incurved.
- longa.* Leaves heart shaped, petioled, obtuse: stem weak: flowers solitary: fruit ovate.
South of Europe. *Woodv. t. 107. Mill. fig. t. 51. f. 2.*
Roots long, taper: lip of the corol straight.
- hirsuta.* Leaves heart shaped, rather obtuse with a point, very hairy: flowers solitary, pendulous, recurved, somewhat truncate.
Chios. *Tournef. it. 1. t. 147.* Stem hairy.
- *Clematis.* Leaves heart-shaped: stem erect: flowers in axillary clusters.
Woods. *Eng. Bot. t. 398. Woodv. t. 238.*
- scandens.* Leaves heart shaped; on very long petioles: stem climbing: flowers terminal, on very long peduncles.
New Spain. Flowers in loose bunches.
- conferta.* Leaves heart shaped, petioled: stem climbing: flowers in axillary clusters.
New Spain. Flowers in small clusters, purple.
- bracteata.* Leaves heart shaped, obtuse: stem weak: flowers solitary: bractes heart-shaped, petioled.
East Indies. Flowers with a long curved lip.
- obtusata.* Leaves heart-shaped, rounded at the tip, 3-nerved, reticulate and downy underneath: stem twining: peduncles solitary.
Caribbees. *Plum. ic. t. 33.*
- grandiflora.* Leaves broad heart-shaped: stem twining, somewhat herbaceous: peduncles solitary: lip of the corol very large, with a very long tail.
Jamaica. *Swart. prodr. 126. Brown Jam. 327. n. 2.*

ORDER IV. DODECANDRIA.

1640 CYTINUS. *Stigma* 1: *calyx* 4-cleft, superior: corol 0: *antheræ* 12—16, sessile: berry 8-celled, many seeded. Rape of *Cistus*.

Hypocistis. Cytinus.

South of Europe. *Dubam. arb. 1. 170. tab. 68.*

Plant growing from the roots of the *Cistus*: leaves sessile, closely imbricate: flowers in terminal clusters, dirty yellow.

CLASS XXI. MONOECIA.

Male and female flowers on the same plant.

ORDER I. MONANDRIA.

1642. CHARA. Male. *Calyx* none: *corol* none.
Female. *Calyx* 4-leaved: *corol* none: *stigma* 3-cleft: *berry* many-seed.
1641. ZANNICHELLIA Male. *Calyx* none: *corol* 0.
Fem. *Calyx* 1-leaved: *corol* 0: *style* 1: *capsules* many-seeded.
1649. ZOSTERA. *Spadix* linear, bearing the fructification on one side: *calyx* 0: *corol* 0: *anthera* sessile, parallel with the germ: *stigmata* 2: *capsules* 1-seeded.
1644. CERATOCARPUS. Male. *Calyx* 2-parted: *corol* 0.
Fem. *Calyx* 1-leaved: *corol* 0: *styles* 2: *seed* 1, invested with the calyx.
1643. ELATERIUM. *Calyx* 0: *corol* salver-shaped: *capsules* inferior, pulpy, 1-celled, many-seeded.
1646. CYNOMORIUM. *Calyx* an imbricate ament: *corol* 0: *style* 1: *seed* 1, roundish.
1645. ARTOCARPUS. Male. An ament, *calyx* 0: *corol* 2-petalled.
Fem. An ament: *calyx* 0: *corol* 0: *style* 1: *berries* 1-seeded, connected and forming a roundish muricate fruit.
1647. CASUARINA. Male. *Calyx* of the ament: *corol* a 2-parted scale.
Fem. *Calyx* of the ament: *corol* 0: *style* cloven: *fruit* a cone.
1648. ÆGOPRICON. Male an ament: *common-calyx* 3-cleft, partial-one tubular: *corol* 0: *anthera* 4-lobed.
Fem. *Flowers* solitary: *calyx* as in the male: *corol* 0: *styles* 3, united at the base: *capsule* 3-grained.
+ Callitriche.

ORDER II. DIANDRIA.

1651. LEMNA. *Calyx* 1-leaved: *corol* 0: *style* 1: *capsules* many-seeded.
1650. ANGURIA. *Calyx* 5-cleft: *corol* 5-petalled: *pome* 2-celled, many-seeded.

ORDER III. TRIANDRIA.

1652. OLYRA. *Calyx* a 1-flowered glume: *corol* a 2-valved glume. *style* cloven: *seed* 1, naked, cartilaginous.
1653. COIX. *Calyx* a 2-flowered glume: *corol* a 2-valved glume: *style* cloven: *seed* 1, covered by the long calyx.
1654. ZEA. Male. *Calyx* a 2-flowered glume: *corol* a 2-valved glume.
Fem. *Calyx* a 1-flowered glume: *corol* a 2-valved glume: *style* 1: *seed* 1, naked, roundish.
1655. TRIPSACUM. Male. *Calyx* a 4-flowered glume: *corol* a 2-valved glume.
Fem. *Calyx* a glume with perforated sinuses: *corol* a 2-valved glume: *styles* 2: *seed* 1.
1656. SCLERIA. Male. *Calyx* glume 2—6-valved, many-flowered, awnless: *corol*, glumes awnless: *filament* 1—3.
Fem. *Calyx*, glume 2—6-valved, awnless: *corol* 0: *stigmata* 1—3: *nut* bony, coloured.
1657. CAREX. *Ament* imbricate: *calyx* a 1-valved scale: *corol* 0: *stigmata* 2 or 3: *seed* coated.
1658. SPARGANIUM. *Calyx* 3 leaved: *corol* 0: *drupe* dry, 1-seeded.
1659. TYPHA. Male. *Ament* cylindrical, hairy: *anthera* about 3 together on each filament.
Fem. *Ament* cylindrical: *seed* 1, on a feathered pedicel.
1660. COMPTONIA. Male. *Ament* imbricate: *calyx* 2-leaved: *corol* 0: *anthera* 2 parted.
Fem. *Ament* imbricate: *calyx* 6 leaved: *corol* 0: *styles* 2. *nut* ovate.
1661. AXYRIS. Male. *Calyx* 3-parted: *corol* 0.
Fem. *Calyx* 2-leaved: *corol* 0: *styles* 2: *seed* 1.
1665. PHYLLANTHUS. *Calyx* 6-parted: *corol* 0: *styles* 3, cloven: *capsule* 3-celled: *seeds* solitary.
1662. TRAGIA. Male. *Calyx* 3-parted: *corol* 0.
Fem. *Calyx* 5-parted: *corol* 0: *style* 3-cleft: *capsule* 3-grained, 3-celled.
1663. HERNANDIA. Male. *Calyx* 3-parted: *corol* 3-petalled.
Fem. *Calyx* truncate, entire: *corol* 6 petalled: *drupe* hollow, with an open mouth.

1664. ELATE. Male. *Calyx* 3-toothed: *corol* 3-petalled: *antheræ* 6, sessile.
Fem. *Calyx* 1-leaved: *corol* 3-petalled: *pistil* 1: *stigmata* 3: *drupe* 1-seeded.
1670. TRICHOSANTHES. *Calyx* 5-toothed: *corol* 5-parted, ciliate.
Male. *Filaments* 3, united by the cylindrical anthera.
Fem. *Style* 3-cleft: *pome* oblong, 3-celled.
1667. MOMORDICA. *Calyx* 5-cleft: *corol* 5-parted
Male. *Filaments* 3: *antheræ* cohering.
Fem. *Style* 3-cleft: *pome* dry, opening elastically, 3-celled.
1666. CUCUMIS. *Calyx* 5-toothed: *corol* 5-parted.
Male. *Filaments* 3; *antheræ* cohering.
Fem. *Style* 3-cleft: *pome* succulent: *seeds* ovate acute, compressed.
1668. CUCURBITA. *Calyx* 5-toothed: *corol* 5-cleft.
Male. *Filaments* 3: *antheræ* cohering.
Fem. *Style* 3-cleft: *pome* 3—6-celled: *seeds* with a tumid margin.
1669. SICYOS. *Calyx* 5-toothed: *corol* 5-parted.
Male. *Filaments* 3; *antheræ* cohering.
Fem. *Style* 3-cleft: *drupe* prickly, 1-seeded.

† A few *Amaranths*.

ORDER IV. TETRANDRIA.

1671. LITTORELLA. Male. *Calyx* 4-leaved: *corol* 4-cleft: *stamina* very long.
Fem. *Calyx* 0: *corol* unequally 3-cleft: *style* very long: *nut* 1-celled.
1672. URTICA. Male. *Calyx* 4-leaved: *corol* 0: rudiment of the germ cup-shaped.
Fem. *Calyx* 2-leaved: *corol* 0: *seed* 1, superior, shining.
1682. TRICERA. Male. *Calyx* 4-leaved: *corol* 0: *filaments* ovate.
Fem. *Calyx* 5-leaved: *corol* 0: *styles* 3, conical: *capsule* triangular, 3-horned, 3-celled.
1681. ARGYTHAMNIA. Male. *Calyx* 4-leaved: *corol* 4-petalled.
Fem. *Calyx* 5-leaved: *corol* 0: *styles* 3, forked: *capsule* 3-celled, with a single seed in each.

1680. EMPLEURUM. Male. *Calyx* 4-cleft: *corol* 0.
Fem. *Calyx* 4-cleft, inferior: *corol* 0: *stigma*
placed on the lateral toothlet of the germ:
capsule opening on the side: *seed* 1.
1673. MORUS. Male. *Calyx* 4-parted: *corol* 0.
Fem. *Calyx* 4-leaved: *corol* 0: *styles* 2:
seed 1, berried.
1679. BOEHMERIA. Male. *Calyx* 4-parted: *corol* 0.
Fem. *Calyx* 0, but crowded scales: *corol* 0:
germ between each scale: *style* 1: *seed* 1,
compressed.
1674. SERPICULA. Male. *Calyx* 4-toothed: *corol* 4-petalled.
Fem. *Calyx* 4-parted: *corol* 0: *nut* with
cartilaginous swellings.
1675. CICCIA. *Calyx* 4-leaved: *corol* 0: *styles* 4, 2-parted:
capsule 4-grained.
1678. AUCUBA. *Calyx* 4-toothed: *corol* 4-petalled: *style* 1:
stigma capitate: *nut* 1-celled.
1676. BUXUS. Male. *Calyx* 3-leaved: *corol* 2-petalled:
rudiment of a germ.
Fem. *Calyx* 4-leaved: *corol* 3-petalled: *styles*
3: *capsule* 3-beaked, 3-celled: *seeds* 2.
1677. BETULA. Male. *Calyx* a 1-leaved, 3-cleft, 3-flowered
scale of the ament: *corol* 4-parted.
Fem. *Calyx* 1-leaved, subtrifid, 2-flowered
scale of the ament: *corol* 0: *style* 2: *seeds*
compressed.

† Eriocaulon. Myrica Gale.

ORDER V. PENDANDRIA.

1683. NEPHELIUM. Male. *Calyx* 5-toothed: *corol* 0: *antheræ*
cloven at the base.
Fem. *Calyx* 4-cleft: *corol* 0: *germs* 2, with
2 *styles* to each: *capsules* 2, bristly, 1-
seeded.
1689. SECHIUUM. *Calyx* half 5-cleft: *corol* 5-cleft, with 10
hollows on the upper-part of the tube.
Male. *Filaments* 5, cohering.
Fem. *Stigma* peltate, 5-cleft: *pericarp* fleshy,
5-grooved, 1-seeded.
1688. BRYONIA. Male. *Calyx* 5-toothed: *corol* 5-cleft: *fila-*
ments 3: *antheræ* 5.

- Fem. *Calyx* 5-toothed: *corol* 5-cleft: *style* 3-cleft: *berry* inferior, many-seeded.
1687. AMARANTHUS. Male. *Calyx* 3-leaved: *corol* 0; *stamina* 3 or 5.
Fem. *Calyx* 3 leaved: *corol* 0: *styles* 3: *capsules* 1 celled, opening transversely all round: *seed* 1.
1684. XANTHIUM. Male. *Calyx* common, imbricate: *florets* 1 petalled, funnel-form, 5-cleft: *receptacle* chaffy.
Fem. *Calyx* 2-leaved, 2-flowered: *corol* 0: *drupe* dry, bristly, cloven: *nut* 2-celled.
1686. CLIBADIUM. Male. *Calyx* common, imbricate: *florets* of the disk 5-cleft.
Fem. *Calyx* common, imbricate: *florets* of the ray female, 3 or 4: *seed* an umbilicated drupe.
1685. AMBROSIA. Male. *Calyx* common, 1-leaved: *florets* 1-petalled, funnel-form, 3-cleft: *receptacle* naked.
Fem. *Calyx* 1-leaved, 1-flowered: *corol* 0: *nut* 5 toothed.

+ Diosma. *Fagus sylvatica*. *Quercus*. *Atriplex portulacoides*.

ORDER VI. HEXANDRIA.

1690. ZIZANIA. Male. *Calyx* 0: *corol*, glume 2-valved, awnless, mixed with the females.
Fem. *Calyx* 0: *corol*, glume 1 valved, hooded, awned: *style* 2-parted: *seed* 1, invested with the plaited corol.
1691. PHARUS. *Calyx*, glume 2-valved, 1-flowered.
Male. *Corol* a 1-valved glume.
Fem. *Corol* a 1-valved glume, long, involving: *seed* 1.
1696. POMETIA. *Calyx* 1-leaved, 6 cleft: *corol* 6-petalled.
Male. *Filaments* on the margin of the nectary.
Fem. *Berry* globular, with a single seed in the centre.
1694. GUETTARDA. *Calyx* cylindrical: *corol* 6 or 7-cleft, funnel-form: *pistil* 1: *drupe* dry.
1692. COCOS. *Calyx* 3-parted: *corol* 3-petalled: *stigmata* 3: *drupe* coriaceous.

1693. *BACTRIS*. Male. *Calyx* 3-parted: *corol* 3-cleft.
Fem. *Calyx* 3-toothed: *corol* 3-toothed:
stigma obscurely 3-cleft: *drupe* coriaceous.
1695. *EPIBATERIUM*. *Calyx* double; outer 6-leaved; inner 3-leaved:
petals 6; 3 outer, between the calycine
leaflets; 3 inner: *drupes* 3.
† *Rumex spinosa*.
- ORDER VIII. POLYANDRIA: 8 or more *stamina*.
1697. *THOA*. *Calyx* 0: *corol* 0.
Male. *Stamina* numerous, at the joints of
the spikes.
Fem. *Germes* 2, at the base of the male spike,
one on each side, sessile: *stigma* 3 or 4-
cleft: *seed* 1, in a brittle shell, covered
with a bristly web.
1698. *BEGONIA*. *Calyx* 0: *corol* 4—8-petalled.
Male. *Filaments* numerous, on the recep-
tacle.
Fem. *Capsule* winged, many-seeded.
1703. *SAGITTARIA*. *Calyx* 3-leaved: *corol* 3-petalled.
Male. *Stamina* about 24.
Fem. *Pistils* numerous: *capsules* numerous,
swelling, 1-seeded.
1699. *MYRIOPHYL-
LUM*. *Calyx* 4-leaved: *corol* 4-petalled: *stamina* 8:
stigmata 4: *seeds* 4, coated.
1700. *CERATOPHYL-
LUM*. *Calyx* many-parted: *corol* 0: *stamina* 16—
20: *stigma* nearly sessile: *seed* 1, coated.
1705. *THELYGONUM*. *Calyx* cloven: *corol* 0: *filaments* 12 or more:
pistil 1: *capsule* coriaceous, 1-celled, 1-
seeded.
1701. *POTERIUM*. *Calyx* 4-leaved: *corol* 4-parted: *stamina* 30—
40: *pistils* 2: *nut* 2-celled, coated.
1707. *FAGUS*. Male. *Calyx* campanulate, 5-cleft: *corol* 0:
stamina 5—12.
Fem. *Calyx* 4-cleft: *corol* 0: *styles* 2 or 3,
3-cleft: *seeds* 2 or 3, covered with the
coriaceous prickly calyx.
1708. *QUERCUS*. Male. *Calyx* campanulate, lobed: *corol* 0:
stamina 5—10.
Fem. *Calyx* campanulate, quite entire, rough:
corol 0: *style* 1: *nut* superior, coriaceous,
1-seeded.

1706. MABEA. *Calyx* 1-leaved, 5-toothed: *corol* 0:
Male. *Filaments* 9—12, in the bottom of the calyx.
Fem. *Germ* and *style* 1: *stigma* revolute: *capsule* 5-celled, 3-seeded, covered with a thick bark.
1702. ACIDOTON. *Calyx* 5 or 6-leaved: *corol* 0: *filaments* numerous, fixed to a globular receptacle: *style* 3-cleft: *capsules* 3-grained.
1715. PARIANA. Male. *Flowers* in whorls, forming spikes: *calyx* 2-leaved: *corol* 2-valved, larger than the calyx: *filaments* 40.
Fem. *Flowers* solitary in each whorl: *calyx* 2-valved: *corol* 2-valved, less than the calyx: *stigmata* 2: *seed* 1.
1709. JUGLANS. Male. *Calyx* 1 leaved, scale-form: *corol* 6-parted: *filaments* 12—24.
Fem. *Calyx* 4-cleft, superior: *corol* 4-parted: *styles* 2: *drupe* with a grooved nut.
1710. CORYLUS. Male. *Calyx* a scale of the ament, 3-cleft: *corol* 0: *styles* 8.
Fem. *Calyx* cloven and torn: *styles* 2: *nut* ovate, smooth, 1-celled.
1711. CARPINUS. Male. *Calyx* a scale of the ament, roundish: *corol* 0: *stamina* 8—20.
Fem. *Calyx* a scale of the ament, oblong: *germs* 2, with 2 *styles* on each: *nut* angular, 1-celled.
1712. PLATANUS. Male. *Ament* globular: *corol* hardly visible: *antheræ* growing round the filament.
Fem. *Ament* globular: *corol* many-parted: *stigma* recurved: *seeds* roundish, with a capillary down at the base.
1713. SALISBURIA. Male. *Ament* naked: *antheræ* numerous, incumbent, deltoid.
Fem. Solitary: *calyx* 4-cleft: *corol* 0: *drupe* with a triangular shell.
1714. HEDYOSMUM. Male. *Ament* covered with *antheræ*: *perianth*, *corol*, *filaments* 0.
Fem. *Calyx* 3 toothed: *corol* 0: *style* 1, 3-sided: *berry* 3 sided, 1-seeded.
1717. CARYOTA. *Calyx* common: *corol* 3 parted: *stamina* very numerous: *pistil* 1: *berry* 1-celled, 1 or 2-seeded.

1716. LIQUIDAMBAR. Male. *Calyx* common, 4-leaved: *corol* 0: *filaments* numerous
Fem. *Calyx* in a globe, 4-leaved: *corol* 0: *styles* 2: *capsules* numerous, in a globe, 2-valved, many-seeded.
1718. ARECÁ. *Spathe* 2-valved: *corol* 3 petalled: *filaments* 9: *drupe* with an imbricate calyx.
1719. AMBROSINIA. *Spathe* 1-leaved, separated by a membranaceous partition, containing the *stamina* on the inner-side, *pistils* on the outer.
1704. ARUM. *Spathe* 1-leaved: *corol* 0: *spadix* cylindrical, bearing *stamina* below the middle, and *germs* at the base: *berries* 1-celled.

ORDER IX. MONADELPHIA.

1720. PINUS. Male. *Calyx* of the ament with a peltate scale: *corol* 0: *antheræ* sessile, growing to the scale.
Fem. *Calyx* a 2-flowered scale of the cone: *pistil* 1: *nut* winged.
1722. CUPRESSUS. *Calyx* a scale of the ament: *corol* 0: *antheræ* 4, sessile, without filaments.
Fem. *Calyx* a 1-flowered scale of the cone: *corol* 0: *styles* 2 concave dots: *nut* angular.
1721. THUJA. Male. *Calyx* the scale of an ament: *corol* 0: *stamina* 4.
Fem. *Calyx* a 2-flowered scale of a strobile: *corol* 0: *pistil* 2: *nut* 1, winged.
1724. HURA. Male. *Ament* imbricate: *perianth* truncate: *corol* 0: *filaments* cylindrical, surrounded by numerous *antheræ* in pairs.
Fem. *Calyx* 0: *corol* 0: *style* filiform: *stigma* 12-cleft: *capsule* 12-celled: *seeds* solitary.
1726. GYMNANTHES. Male. *Ament* naked: *perianth* 0: *corol* 0: *filaments* 3-parted or 3-forked pedicels bearing the *antheræ*.
Fem. *Ament* or *germ* pedicelled: *corol* 0: *styles* 3-cleft: *capsule* 3-grained, 3-celled
1723. GNETUM. *Ament* scaly: *corol* 0: *filament* 1, with 2 *antheræ*: *style* with a cloven stigma: *drupe* 1-celled, 1-seeded.

1739. HIPPOMANE. Male. An ament: *perianth* cloven: *corol* 0.
Fem. *Perianth* 3-cleft: *corol* 0: *stigma*
3-parted: *drupe* or *capsule* 3-grained.
1725. PLUKENETIA. *Calyx* 0: *corol* 4-petalled.
Male. *Stamina* 8: *nectaries* 4, bearded.
Fem. *Style* very long, with a peltate 4-
lobed *stigma*: *capsule* 4-grained.
1732. JATROPHA. Male. *Calyx* 0: *corol* 1-petalled, funnel-
form: *stamina* 10, alternately longer
and shorter.
Fem. *Calyx* 0: *corol* 5-petalled: *styles* 3,
cloven: *capsule* 3-celled: *seeds* solitary.
1734. SIPHONIA. *Calyx* 1-leaved: *corol* none.
Male. *Antheræ* 5, below the the top of the
column.
Fem. *Style* 0: *stigmata* 3: *capsule* 3-grained:
seeds with a brittle shell.
1736. BRADLEIA. Male. *Calyx* 0: *corol* 6-petalled, nearly
equal: *filaments* 3, with 3 twin *antheræ*.
Fem. *Calyx* 0: *corol* 6 parted, 3 of the
parts interior: *germ* superior, with 6-8
stigmata: *capsule* 6-celled, 6-valved:
seeds solitary.
1729. ALBURITES. *Calyx* 3-cleft: *corol* 5-petalled: *nectaries* 5
scales: *stamina* numerous, united on a
columnar receptacle: *stigmata* 3, sessile:
berry globular: *seeds* 2, coated with a
double bark.
1728. ACALYPHA. Male. *Calyx* 3 or 4-leaved: *corol* 0: *stig-*
mata 8-16.
Fem. *Calyx* 3-leaved: *corol* 0: *styles* 3:
capsules 3 grained, 3-celled: *seeds* so-
litary.
1730. CROTON. Male. *Calyx* cylindrical, 5-toothed: *corol*
5-petalled *stamina* 10-15.
Fem. *Calyx* many-leaved: *corol* 0: *styles* 3,
cloven: *capsule* 3-celled: *seeds* solitary.
1737. RICINUS. *Calyx* 5-parted: *corol* 0: *filaments* numerous:
styles 3, cloven: *capsule* 3-celled, 3-
valved: *seeds* solitary.
1731. HERITIERA. *Calyx* 5-toothed: *corol* 0: *antheræ* 10, with-
out *filaments*: *germs* 5: *drupes* dry,
1-seeded.
1735. OMPHALEA. Male. *Calyx* 4-leaved: *corol* 0: *filament* co-
lumnar, with the *antheræ* inserted in it.

- Fem. *Calyx* 5-leaved: *corol* 0: *stigma* 3-cleft: *capsule* fleshy, 3-celled: *nuts* solitary.
1733. *AGYNEIA*. *Calyx* 6-leaved: *corol* 0: *antheræ* 3, on the rudiment of a *style*: *germ* perforated at top, without *style* or *stigma*.
1738. *STILLINGIA*. Male. *Calyx* hemispherical, many-flowered: *corol* tubular, eroded.
- Fem. *Calyx* 1-flowered, inferior: *corol* superior: *style* 3-cleft: *capsules* 3-grained.
1726. *DALECHAMPIA*. *Outer-involucre* with 4 leaflets, inner with 2 3-cleft leaves.
- Male. *Umbellet* 10-flowered: *involucre* 2-leaved: *corol* 0: *filaments* numerous.
- Fem. *Florets* 3: *involucel* 3-leaved: *proper perianth* of 11 leaflets: *corol* 0: *style* filiform: *capsule* 3-grained.
1740. *NIPA*. Male. *Spathe*: *corol* 6-petalled.
- Fem. *Spathe*: *corol* 0: *drupes* aggregate, angular.

ORDER I. MONANDRIA.

1641. ZANNICHELLIA. Male. *Calyx* 0: *corol* 0:
filament 1, long, erect: *antheræ* ovate, erect.

Female. *Calyx* 1-leaved: *corol* 0: *germs* 4 or more:
seeds 4 or more, pedicelled: *stigmata* peltate.

Pondweed.

* *palustris*. Zannichellia.

Ditches. *Mill. illust. t. 77. Flor. Dan. t. 67.*

Antheræ 4-celled: *stigmata* very entire.

1642. CHARA. Male. *Calyx* 0: *corol* 0.

Female. *Calyx* 4-leaved: *corol* 0: *stigma* 3-cleft:
berry many-seeded.

tomentosa. Stem covered with ovate bristles.

Europe. *Pluk. alm. t. 29 f. 4. Moris sect. 15. t. 4. f. 9.*

* *vulgaris*. Unarmed, striate: leaves subulate, jointed.

Pools. *Eng. Bot. t. 336. Hedw. theor. t. 32, 33.*

* *bispida*. Stem with setaceous deflected prickles, grooved: leaves
subulate, jointed; leaflets in whorls.

Ditches. *Eng. Bot. t. 463. Flor. Dan. t. 154.*

* *flexilis*. Unarmed, smooth, transparent: leaves cylindrical, obtuse
with a small point, branched.

Pools. *Eng. Bot. t. 4070. Vaill. act. Par. 1719. t. 3. f. 9.*

1643. ELATERIUM. Male. *Calyx* 0: *corol* sal-
ver-shaped.

Fem. *Calyx* 0: *corol* salver-shaped: *capsule* inferior,
1-celled, 2-valved.

*carthagi-
neum*. Leaves heart-shaped, angular.

Carthageria. *Jacq. Amer. t. 154. pict. t. 232.*

Stems diffuse, climbing, with tendrils; *leaves* serrate.

trifoliatum. Leaves ternate, cut.

Virginia. *Capsule* kidney-form, rough with hairs.

1644. CERATOCARPUS. Male. *Calyx* 2-parted:
corol 0.

Fem. *Calyx* 1-leaved, carinate, permanent, 2-horned;
styles 2: *seed* single, compressed, inclosed and co-
vered by the calyx.

arenarius. Ceratocarpus.

Tartary. *Buxb. act. Petrop. i. p. 244. tab. 9.*

Plant branching: *leaves* very narrow, sharp, grassy.

1645. ARTOCARPUS. Male an ament: *calyx* 0:
corol 2-petalled.

Fem. *Calyx* 0: *corol* 0: *style* 1: *berries* 1-seeded, connecting and forming a roundish berried fruit.

incisa. Leaves cut. Bread-fruit tree.
South Sea Islands. *Ferst gen. t. 51. Ellis monogr. fig.*
Tree 30 feet high: *leaves* alternate, oblong, deeply cut, 9-lobed,
villous and rugged: *flowers* terminal.

integrifolia. Leaves entire. Jack tree.
East Indies. *Rumph. Amb. 1. t. 30. 31. Rheed. Mal. 3. t. 26-28.*
Leaves ovate-oblong, obtuse, glabrous above.

1646. CYNOMORIUM. Male. *Calyx* an imbricate ament: *corol* 0:

Fem. *Calyx* an imbricate ament: *corol* 0: *style* 1:
seed 1, roundish.

coccineum. Stalk scaly: ament cylindrical: scales imbricate, ovate,
retuse.
Barbary. *Amæn. acad. 4. p. 351, t. 2. Mich. gen. t. 12.*
Plant fungiform, parasitical: *scales* white.

jamaicense. Stalk scaly: ament elongated: scales imbricate, halved,
rhombic.
Jamaica. *Swartz. prodr. 12.*

cayanense. Stalk naked: ament somewhat globular: scales roundish,
peltate.
Cayenne. *Swartz. prodr. 12.*

1647. CASUARINA. Male. *Calyx* of the ament:
corol a 2-parted scale.

Fem. *Calyx* of the ament: *corol* 0: *style* cloven:
fruit a cone.

equisetifolia Monoëcious: whorls of the stamina approximate.
South Sea Islands. *Rumph. Amb. 3. t. 57.*

nodiflora. Monoëcious: whorls of the stamina remote.
East Indies. *Rumph. Amb. 3. tab. 58.*

arida. Diœcious: branchlets erect: scales of the cones unarmed,
nearly smooth: male-sheaths many-cleft, smooth.
New South Wales. *Aiton. kew. 3. p. 320.*

torulosa. Diœcious: branchlets flaccid: scales of the cones villous,
rough with tubercles: male-sheaths 4-cleft.
New South Wales. *Aiton. kew. 3. p. 320.*

- africana*. Fronds filiform : swelling and flowering at the tip : cones roundish, axillary.
Cochinchina. *Lour. Cochinch.* 549.

1648. *ÆGOPRICON*. Male an ament : *common-calyx* 3-cleft ; partial one tubular : *corol* 0 : *anthera* 4-lobed.

Fem. *Flowers* solitary : *calyx* as in the male : *corol* 0 : *styles* 3, united at the base ; *capsule* 3-grained.

- betulinum*. *Ægopricon*.
East Indies. *Smith ic. ined. t. 42. Aubl. Guian. t. 342*,
Tree branched ; leaves ovate, acute, very entire, glabrous : *flowers* from the ends of the branchlets.

1649. *ZOSTERA*. *Spadix* linear, sheathed by the leaf, bearing the fructification on one side ; *calyx* 0 : *corol* 0 : *anthera* sessile, parallel with the germ : *stigmata* 2 : *capsule* 1-seeded. *Grass-wrack*.

- * *marina*. Leaves very entire, about 3-nerved : stem roundish.
Sea shores. *Engl. Bot. t. 467. Flor. Dan. t. 15*.

- uninervis*. Leaves very entire, 1-nerved : stem compressed, thickened at the joints.
Red sea. *Forst. desc. p. 157. Vahl. enum. p. 14*.

- ciliata*. Leaves crowded, retuse, ciliate with ferratures,
Red sea. *Forsk. descr. 157. Vahl. enum. p. 15*.

- stipulacea*. Leaves a pair, petioled : stipules opposite, conduplicate.
Red sea. *Forsk. descript. 158. Vahl. enum. p. 15*.

ORDER II. DIANDRIA.

1650. *ANGURIA*. *Calyx* 5-cleft : *corol* 5-petalled : *pome* inferior, 2-celled, many-seeded.

- trilobata*. Leaves 3-lobed, with a few small teeth.
Carthage. *Jacq. Amer. t. 156. pict. t. 234*.
Plant shining : lobes of the leaves oblong, pointed.

- pedata*. Leaves pedate, serrate.
St. Domingo. *Jacq. Amer. t. 155. pict. 233*.
Plant climbing by tendrils : leaves ternate.

- trifoliato*. Leaves ternate, very entire.
St. Domingo. *Plum. Amer. p. 85. tab. 99*.

1651. LEMNA. *Calyx* 1-leaved: *corol* 0: *style* 1:
capsule many-seeded. Duck-weed.

- * *trifolca*. Leaves petioled, lanceolate, proliferous.
 Ponds. *Eng. Bot. t. 926. Mich. gen. t. 11. f. 5.*
- * *minor*. Leaves sessile, nearly flat both sides: roots solitary.
 Ponds. *Eng. Bot. t. 1095. Mich. gen. t. 11. f. 3.*
- * *gibba*. Leaves sessile, a little convex, hemispherical underneath:
 roots solitary.
 Ponds. *Eng. Bot. t. 1233. Mich. gen. t. 11. f. 2.*
- * *polyrrhiza*. Leaves sessile, roundish: roots clustered.
 Ponds. *Ray syn. 129. t. 4. f. 2. Mich. gen. t. 11. f. 1.*
- * *obcordata*. Leaves sessile, inversely heart-shaped: roots clustered.
 East Indies. *Vabl symb. 2. p. 95.*
- * *arhiza*. Leaves in pairs, without root.
 South of Europe. *Mich. gen. t. 11. f. 4.*

ORDER III. TRIANDRIA.

1652. OLYRA. Male. *Calyx* a 1-flowered glume,
 awned: *corol* 0.

Fem. *Calyx* a 1-flowered glume, spreading, ovate:
style cloven: *seed* cartilaginous.

- * *paniculata*. Panicle terminal: culm branched.
 Jamaica. *Sloan. Jim. 1. p. 107. tab. 64. f. 2.*
- * *pauciflora*. Flowers axillary: culms simple.
 Jamaica. *Swartz. flor. ind. occid. p. 195.*

1653. COIX. Males in remote spikes: *calyx* a 2-
 flowered glume, awnless: *corol* a 2-valved glume,
 awnless.

Fem. *Calx* a 2-flowered glume, awnless: *corol* a 2-
 valved glume, awnless: *style* 2-parted: *seed* co-
 vered with the long calyx. *Job's tears.*

- * *Lachryma Jobi*. Culm branched: leaves wrinkled underneath: seeds ovate,
 East Indies. *Rheed, Mal. 12. t. 70. Rumph. Amb. 5. t. 75. f. 2.*
- * *angulata*. Culm branched: seeds angular.
 America. *Hort. cliff. 438.*
- * *agrestis*. Culm quite simple: leaves smooth: seeds roundish.
 East Indies. *Rumph. Amb. 6. 22. t. 9. f. 1.*

1654. ZEA. Male. *Calyx* a 2 flowered glume, awnless: *corol* a 2-valved glume, awnless.

Fem. *Calyx* a 1-flowered glume: *corol* a 2-valved glume: *style* 1, pendulous filiform: *seeds* solitary, immersed in an oblong receptacle.

Mays. Leaves very entire. *Maize. Indian corn.*
America. *Kniph. orig.* 3. *tab.* 99. *Blackw. t.* 547. *a. b.*

Curagua. Leaves serrate.
Chili. *Molin. hist. chil.* p. 107.

1655. TRIPSACUM. Male. *Calyx* a 4-flowered glume: *corol* a membranaceous glume.

Fem. *Calyx* a glume with perforated sinuses: *corol* a 2-valved glume: *styles* 2: *seed* 1.

dactyloides. Spikes androgynous.
Virginia. *Mill. illust. Moris. sect.* 8. *t.* 3. *f.* 11.

hermaphroditum. Spikes hermaphrodite.
Jamaica. *Linn. dec.* 17. *tab.* 9.

1656. SCLERIA. Male. *Calyx*, glume 2-6-valved, many-flowered, awnless: *corol*, glumes awnless
filaments 1-3.

Fem. *Calyx*, glume 2-6-valved, 1-flowered, awnless: *corol* 0: *stigmata* 1-3: *nut* bony, coloured.

Flagellum. Culm 3-fided, climbing, very rugged: leaves prickly backwards 2-ways: flowers panicled; shaft villous.
Jamaica, Africa. *Sloan Jam.* 1. 118. *tab.* 77. *f.* 1.

mitis. Culm 3-fided, climbing, smooth: leaves smooth: flowers panicled, shaft glabrous
Jamaica, Surinam. *Act. Holm.* 1765. 145. *t.* 5.

lithosperma. Culm 3-fided, somewhat rugged, erect: leaves stiff, linear, rugged on the edge. flowers panicled; shaft rough.
East Indies. *Rheed. Mal.* 12. *t.* 48. *Moris.* 8. *t.* 11. *f.* 16.

filiformis. Culm simple, filiform, smooth: leaves subulate: spikes nearly simple: florets smooth, with a filiform leaflet under them.
West Indies. *Swartz. prodr.* 19.

hirtella. Culm simple, filiform, pubescent: leaves linear: spike simple: florets rough-haired.
Jamaica. *Swartz. prodr.* 19.

- latifolia.* Culm 3-sided, leafy, erect, smooth: leaves broad lanceolate: nerved: flowers paniced.
Jamaica. Swartz. *prodr.* 18.
- poæformis.* Culm leafless: panicles contracted, with flexuous branches: spikelets sessile: female spikes axillary; males 2-flowered.
East Indies. Retz. *obs.* 4. p. 13. Culm 3 sided.
- tenuis.* Culm leafy: leaves unarmed: panicle capillary: flowers sessile; outer male, inner female.
Ceylon. Retz. *obs.* 4. 13. Leaves filiform.
- lævis.* Culm leafy: leaves unarmed: branches of the panicle divided, involucred: male spikes sessile and peduncled.
East Indies. Retz. *obs.* 4. 13. Female spikes sessile.

1657. CAREX. Male. *Ament* imbricate: *calyx*, glume 1-valved: *corol* 0.

Fem. *Ament* imbricate: *calyx*, glume 1-valved: *corol* 0: *stigmata* 2 or 3: *seeds* covered with a swelling tunic. Sedge grass.

A. *Spike solitary, simple.*

- * *dioica.* Spike dioecious: fruit ovate, nerved, ascending, serrulate on the margins.
Wet pastures. Eng. Bot. t. 543. Flor. Dan. t. 369.
- capitata.* Spike androgynous, ovate; upper-part male: fruit imbricate-expanding, very entire on the margins.
Sweden, Denmark. Flor. Dan. t. 372.
- * *Davalliana.* Spike diœcious: fruit lance-triangular, nerved, spread-deflected: the angles rough at top.
Marshes. Scheuchz. agr. 479. tab. 11. f. 9, 10.
- * *pulicaris.* Spike androgynous, male at top: fruit divaricate, retro-flected, pointed at both ends, nerveless: *stigmata* 2.
Marshes. Flor. Dan. t. 166. Leers. 194. t. 14. f. 1.
- * *pauciflora.* Spike androgynous, few-flowered, male at top: fruit spreading, subulate: *stigmata* 3.
Alpine bogs. Lightf. 543. tab. 6. f. 2.
- squarrosa.* Spike androgynous, female at top: fruit imbricate, horizontal.
Canada. Spike oblong: capsules with a linear tip.

- uncinata.* Spike androgynous, linear, male at top: females with hooked awns; males awnless.
New Zealand. *Fertile flowers* 2-thirds of the spike.
- hamata.* Spike linear, male at top: females awned; awns hooked at the tip and equal.
Jamaica. *Savart. prodr.* 18.
- rupestris.* Spike androgynous, oblong, male at top: female glumes awned.
France. *Allion. Pedem. n.* 2292. *tab.* 92. *f.* 1.
- Bellardi.* Spike androgynous, strigose: culm round: leaves capillary.
France. *Allion. Pedem. n.* 2293. *tab.* 92. *f.* 1.
- curvula.* Spike with awned glumes: culm and leaves hard and a little curved.
France. *Allion. Pedem. n.* 2294. *tab.* 92. *f.* 3.
- Phyllophora.* Spike androgynous, male at top: fruit reflected: seeds cylindrical.
Germany, Sweden. *Linn. suppl.* 413.
- Leucoglochin* Spike androgynous, male at top, fruit reflected: seeds 3-sided.
Germany, Sweden. *Linn. suppl.* 413.
- fætida.* Spike conglomerate, brown, fetid.
South of Europe. *Scheuch. prodr.* 18. *tab.* 4.
- Cyperoides.* Head terminal, roundish: flowers quite simple, subulate: involucre long.
Siberia. *Schreb. gram. t.* 28. *f.* 3. *Mich. gen. t.* 33. *f.* 19.
B. *Spike compound, androgynous.*
- baldenfis.* Spikelets 3 or 4, crowded, sessile, ovate, 3-sided: involucre 2-leaved.
Monte Baldo. *Vill. Delph. 2. p.* 196. *tab.* 6.
- * *stellulata.* Spikelets about 5, remote: fruit divergent, pointed, entire at the mouth.
Marshes. *Flor. Dan. t.* 284. *C. muricata.*
- nigra.* Spikelets about 3, erect, sessile, terminal, black: culm 3-sided, leafy.
France. *Allion. Pedem.* 2310.
- bicolor.* Spikelets 3, sessile, terminal: fruit longer than the glumes: culm round. naked.
France. *Allion. Ped. n.* 2311.

- tripartita*. Spike terminal, 3-parted.
South of France. *Allion. Ped. n. 2298. t. 92. f. 5.*
- bipartita*. Spikelets 2, terminal; the upper-one compound: culm round, naked.
South of France. *Allion. Ped. n. 2301. t. 89. f. 5.*
- * *curta*. Spikelets about 6, elliptic, rather remote, naked: glumes ovate, rather acute, membranaceous, with the tunic entire.
Watery places. *Eng. Bot. t. 1386.*
- * *ovalis*. Spikelets about 6, oval, approximate, alternate: glumes lanceolate, as long as the tunic.
Wet places. *Eng. Bot. t. 306. Moris. 8. t. 12. f. 29.*
- leporina*. Spikelets 3 or 4, nearly globular, approximate, alternate: glumes rather obtuse, shorter than the tunic.
Moist Alps. *Flor. Lapp. n. 322.*
- * *remota*. Spikelets solitary, remote, nearly sessile: bractes very long, exceeding the culm: tunic nearly entire.
Wet Woods. *Flor. Dan. t. 370. Mich. gen. t. 33. f. 15. 16.*
- * *axillaris*. Spikelets about 3 together, remote, sessile: bractes elongated: tunic cloven at top.
Marshes. *Gooden Linn. Trans. 2. p. 151. t. 19. f. 1.*
- * *incurva*. Spikelets in crowded heads, female below: bractes scarious: culm roundish, glabrous: leaves channelled.
Loose sand. *Flor. Dan. t. 432. Light. 544. t. 24. f. 1.*
- * *arenaria*. Spikelets in crowded spikes, somewhat monœcious: bractes scarious; the lower-ones foliaceous: culm 3-sided: leaves flat.
Sands. *Wurb. t. 20. Mich. gen. t. 33. f. 4.*
- * *intermedia*. Spikelets in crowded spikes, the lowest and terminal ones female, middle-ones male: culm 3-sided erect.
Marshes. *Moris. fœt. 8. t. 12. f. 32.*
- * *divisa*. Spike more than decomposed, all the spikelets androgynous: bracte foliaceous, erect: fruit appressed: root creeping.
Marshes. *Gooden. Linn. Trans. 2. p. 157. t. 19. f. 2.*
- * *muricata*. Spike oblong, more than decomposed, squarrous: fruit diverging, pointed, cloven: root fibrous.
Wet fields. *Moris. 8. t. 12. f. 27. Mich. gen. t. 33. f. 14.*

- * *divulsa*. Spike elongated, more than decomposed, slightly branched at the base; lower-spikelets remote: fruit nearly erect, smoothish on the margin.
Moist woods. *Eng. Bot. t. 629 ? Mich. gen. t. 33. f. 10.*
- * *vulpina*. Spike more than decomposed, contracted, obtuse: fruit divergent: glumes pointed: angles of the culm compressed, very acute.
Marshes. *Eng. Bot. t. 307. Flor. Dan. t. 308.*
- * *teretiuscula*. Spike more than decomposed, contracted, rather acute; spikelets clustered: fruit spreading, gibbous; culm nearly round
Bogs. *Gooden. Linn. Trans. 2. p. 163. t. 19. f. 3.*
- * *paniculata*. Spike more than decomposed, panicle branched, acute, interrupted: fruit spreading, pointed: culm acutely 3-sided.
Bogs. *Moris. sect. 8 t. 12. f. 23. Mich. gen. t. 33. f. 7.*
- * *uliginosa*. Spike compound: lower-spikelets more remote, with a longer leaflet: culm round.
Sweden. *Reliq. rudb. tab. 1 f. 2 ?*
- * *brizoides*. Spike compound, 2-rowed, naked; spikelets oblong, contiguous: culm naked, 3-sided.
South of Europe. *Mich. gen. 70. t. 33. f. 17.*
- * *loliacea*. Spikelets somewhat ovate, sessile, remote: fruit ovate, roundish, awnless, divaricate, obtuse.
Sweden, Saxony. *Mich. gen. t. 33. f. 10.*
- * *elongata*. Spikelets oblong, sessile, remote: fruit ovate, acute, with a long bent cloven neck.
Europe. *Scheuch. gram. tab. 11. f. 4.*
- * *canescent*. Spikelets roundish, remote, sessile, obtuse: fruit ovate, rather obtuse.
Lapland. *Mich. gen. 70. tab. 33. f. 18.*
Scales membranous, hard, brown with a white edge.
- * *indica*. Spikes cylindrical, paniced, pinnate; a few of the lower florets female.
East Indies. *Fruit ovate, 3-sided, acute.*
- * *brunnea*. Spikes peduncled, linear, acute, male above.
Japan. *Thunb. Jap. 38. Culm 3-sided.*
- * *chordorhiza*. Spikes compound: spikelets approximate, male at top: fruit compressed: root creeping, filiform.
Sweden. *Linn. suppl. 414.*

Helenoastes. Spikes compound : spikelets approximate, female at top : fruit imbricate, with the sides very entire.

Sweden. *Linn. suppl.* 414.

C. *Male and female flowers on distinct spikes : females sessile.*

* *flava*. Sheaths short, nearly equalling the peduncles : female spikes roundish : fruit beaked, curved downwards : stem nearly smooth.

Marthes. *Eng. Bot. t.* 1294. *Moris. sect. 8. t.* 12. *f.* 19.

pedata. Female spikes oblong ; the lower axillary : leaves nearly filiform.

Lapland. *Mich. gen. t.* 32. *f.* 14.

* *digitata*. Bractes membranaceous, nearly leafless, sheathing : spikes linear, lax, erect, the male shorter : leaves flat.

Moist shades. *Eng. Bot. t.* 615. *Mich. gen. t.* 32. *f.* 9.

* *clandestina*. Bractes membranaceous, nearly leafless, sheathing : female-spikes remote, few-flowered, inclosed in a sheath : leaves channelled.

Rocks. *Scheuch. Agrost. 407. tab.* 10. *f.* 1.

conglobata. Spikes approximate, few-flowered : fruit ovate, hairy.

South of Europe. *Scheuch. Agrost. tab.* 10. *f.* 8. 9,

montana. Female spikes nearly solitary, ovate, near the male : culm naked : fruit pubescent.

South of Europe. *Mich. gen. t.* 32. *f.* 3.

* *pilulifera*. Sheaths 0 : female-spikes crowded, roundish : glumes slightly mucronate : fruit roundish, villous.

Heaths. *Flor. Dan. t.* 1048. C. *filiformis*.

* *tomentosa*. Sheaths very short : female spikes nearly sessile, cylindrical, obtuse : glumes elliptic, acute : fruit downy.

Meadows. *Leers. herb. 200. tab.* 15. *f.* 7,

* *filiformis*. Spikes ovate : sheaths about equalling the peduncle : glumes slightly mucronate : fruit villous : leaves channelled, glabrous.

Marthes. *Gooden. Linn. Trans. 2. 172. t.* 20. *f.* 5.

saxatilis. Spikes 3, ovate, alternate ; male oblong.

Lapland. *Flor. Dan. t.* 159? Fruit 3-sided.

mucronata. Spikes approximate, very short : glumes lanceolate, mucronate.

South of Europe. *Mich. gen. t.* 32. *f.* 3.

- alba*. Spikes peduncled, white: sheaths long, obtuse: filaments and styles long, white.
South of Europe *Scheuch. t. 10. f. 45.* Fruit 3 sided.
- fulva*. Female spikes 3, erect: fruit ovate, shortly mucronate: petioled, sitting on the leaf.
Piedmont. *Allion. Pedem. n. 2324.*
- trigona*. Female spikes remote, 3-sided.
France, Switzerland. *Allion. Pedem. t. 89. f. 4.*
- foliosa*. Lowest female spike peduncled: glumes very narrow.
France, Switzerland. *Allion. Pedem. n. 2328.*
- alpestris*. Lowest female spike radical: fruit 3-sided, elongated.
Alps. *Allion. Pedem. n. 2329. Hall. Helv. n. 1385.*
- chasa*. Female spikes about 3: fruit ovate, 3 sided.
Alps. *All. Pedem. n. 2330. Hall. Helv. n. 1385.*
- ferruginea*. Male spike pointed; female spikes 2 or 3, slender, pedicelled: scales ferruginous: fruit cloven.
South of Europe *Scheuch. agr. tab. 10. f. 6.*
- frigida*. Female spikes in threes or fours, 2-rowed: fruit with long points.
Alps. *Allion. Pedem. n. 2344. Hall. Helv. n. 1391.*
- * *extensa*. Sheaths and peduncles very short: bractes very long: female spikes roundish: fruit ovate: culm smooth.
Salt marshes. *Gooden. Linn. Trans. 2. 175. t. 21. f. 7.*
- * *fulva*. Sheaths elongated, shorter than the peduncle: female spikes ovate: fruit beaked, straight: culm rough.
Marshes. *Eng. Bot. t. 1295. Linn. Trans. 2. t. 20. f. 6.*
- * *rigida*. Styles 2: sheaths 0: spikes ovate; upper-ones sessile: leaves somewhat recurved, rigid: fruit a little compressed.
Alps. *Gooden. Linn. Trans. 2. 173. tab. 22. f. 10.*
- * *stricta*. Styles 2: sheaths 0: spikes nearly sessile, cylindrical, elongated, acute: bractes slightly auricled: fruit deciduous.
Marshes. *Gooden. Linn. Trans. 2. 196. tab. 21. f. 9.*
- tristachia*. Spikes monœcious, 3, sessile: the male longer.
Japan. *Linn. syst. 845. Thunb. Jap. 38.*
- D. Male and female spikes distinct: females peduncled.

- atrata*. Diandrous: sheaths hardly any: spikes ovate, peduncled, pendulous; the terminal-one male below: fruit compressed.
Alpine meadows. *Flor. Dan. t. 158. Scheuch. t. 11. f. 1. 2.*
- limosa*. Sheaths very short, hardly any: female spikes ovate, pendulous: fruit elliptic, compressed: root creeping.
Bogs. *Flor. Dan. t. 646. Scheuch. Agr. t. 10. f. 13.*
- Pseudocyperus*. Sheaths hardly any: spikes cylindrical, peduncled, pendulous, many-flowered: fruit spreading, grooved, beaked, forked.
Heaths. *Eng. Bot. t. 242. Moris. sect. 8. t. 12. f. 5.*
- salicifolia*. Spikes terminal, peduncled, male and female: fruit subulate, as long as the spike.
Canada. *Pluk. mant. tab. 419. f. 1.*
- capillaris*. Common sheath half as long as the peduncles: female spikes ovate, rather lax, nodding: fruit pointed, Scotch mountains. *Flor. Dan. t. 158. Scop. Carn. t. 59.*
- pulla*. With 2 styles: sheaths 0: spikes ovate; lower-one peduncled: fruit elliptic, inflated, slightly beaked, notched.
Scotch mountains. *Gooden. Linn. Trans. 3. 78. t. 14.*
- pallefcens*. Sheaths very short: spikes cylindrical, peduncled: pendulous when in fruit: fruit elliptic, inflated, obtuse.
Wet pastures. *Flor. Dan. t. 1050. Mich. gen. t. 32. f. 13.*
- pratensis*. Sheaths abbreviated, about equalling the peduncle: spikes ovate, approximate: glumes slightly mucronate: fruit roundish, pubescent.
Dry heaths. *Jacq. Aust. t. 446. Moris. sect. 8. t. 12. f. 11.*
- binervis*. Sheaths elongated, shorter than the peduncle: spike cylindrical, remote, somewhat compound: glumes slightly mucronate: fruit 2-nerved.
Heaths. *Eng. Bot. t. 1235. Linn. Trans. 5. p. 263.*
- disiana*. Sheaths elongated, about equal to the peduncle: spikes oblong, very remote: glumes slightly mucronate: culm smooth.
Salt marshes. *Eng. Bot. t. 1234. Flor. Dan. t. 1049.*
- panicula*. Sheaths elongated, about half as long as the peduncle: female spikes rather lax, remote: fruit inflated: culm smooth.
Meadows. *Eng. Bot. t. 1505. Flor. Dan. t. 261.*

- * *recurva*. Sheaths abbreviated : female spikes cylindrical, pendulous : fruit elliptic-triangular, roughish : root creeping.
Moors. *Eng. Bot. t. 1506. Flor. Dan. t. 1051.*
- * *depauperata*. Sheaths thrice as short as the peduncle : female spikes remote, erect, few-flowered : fruit inflated, beaked.
Woods. *Curt. Lond. fasc. 6. t. 68. C. ventricosa.*
- elata*. Male spikes 2 : females sessile : fruit ovate, with a very short undivided point.
South of Europe. *Allion. Pedem. n. 2344.*
- * *pendula*. Sheaths elongated, about equalling the peduncle : spikes cylindrical, very long, nodding : fruit much crowded, ovate, acute.
Woods. *Curt. Lond. fasc. 3. t. 63. Moris. 8. t. 12. f. 4.*
- * *strigosa*. Sheaths elongated, about equalling the peduncle : spikes filiform, rather nodding : fruit lanceolate, 3-sided, nerved.
Woods. *Gooden. Linn. Trans. 2. p. 169. t. 20. f. 4.*
- * *sylvatica*. Sheaths half as long as the peduncle : spikes filiform, nodding : fruit ovate, 3-sided, beaked.
Woods. *Flor. Dan. t. 404. Moris. sect. 8. t. 12. f. 9.*
- * *caespitosa*. Styles 2 : sheaths 0 : spikes sessile, cylindrical, obtuse : bractes auricled : fruit permanent.
Marshes. *Eng. Bot. t. 1507. Linn. Trans. 2. p. 195. t. 21. f. 8.*
- japonica*. Spikes monoecious, peduncled, erect : females peduncled, ovate ; male terminal, linear.
Japan. *Thunb. Jap. 38. Culm 3-sided, smooth.*
- junceae*. Spikes very remote : male longer than the nearly sessile females : fruit cloven, 3-sided, smooth.
South of Europe. *Scop. Carn. n. 1163. Leaves linear.*
- leptostachys*. Female spikes remote, peduncled, pendulous : fruit remote, entire at the end.
Germany. *Linn. suppl. 414.*
- ebinenfis*. Spikes erect ; male terminal ; females 4, peduncled : fruit pointed.
China. *Retz. obs. 3. 42. Leaves rough at the edge.*
E. *Male and female spikes distinct : males several.*
- * *acuta*. Styles 2 : spikes filiform, drooping when in flower ; erect when in fruit : fruit elliptic, obtuse, entire at top.
Ditches. *Eng. Bot. t. 580. Curt. Lond. fasc. 4. t. 62.*

- * *paludosa*. Spikes cylindrical, rather obtuse, erect: glumes of the females awned, of the males obtuse: fruit elliptic, with a notch at top.

Ditches. *Curt. Lond. fasc. 4. t. 61. C. acuta.*

- * *riparia*. Spike erect; males 3-sided; females cylindrical: all the glumes pointed: fruit beaked, forked.

Ditches. *Eng. Bot. t. 579. Curt. Lond. fasc. 4. t. 60.*

- Micheliana*. Spikes erect, cylindrical; females peduncled: all the glumes obtuse without points: fruit obovate, very obtuse, entire.

Waters. *Linn. Trans. 5. 270. Mich. gen. t. 32. f. 12.*

- * *lævigata*. Spikes cylindrical; females peduncled: sheaths very long: glumes pointed: fruit 3-sided, beaked, forked.

Marshes. *Eng. Bot. t. 1387. Linn. Trans. 5. 271.*

- * *vesicaria*. Female spikes abbreviated, cylindrical, nearly sessile: sheaths o: fruit inflated, beaked, forked.

Marshes. *Flor. Dan. t. 647. Moris. sect. 8. t. 12. f. 6.*

- * *ampullacea*. Female spikes elongated, cylindrical, nearly sessile: sheaths o: fruit inflated, with a linear forked beak.

Marshes. *Moris. sect. 8. tab. 12. f. 8.*

- * *hirta*. Hairy: spikes abbreviated, cylindrical, remote: sheaths nearly equalling the peduncle: glumes awned: fruit hairy.

Marshes. *Eng. Bot. t. 685. Flor. Dan. t. 379.*

- pumila*. Male spikes 2, terminal, sessile: females 2, peduncled, oblong erect.

Japan. *Thunb. Jap. 39. Stem hardly any.*

1658. SPARGANIUM. *Ament* roundish: calyx 3-leaved: corol o.

Fem. *Stigma* cloven: *drupe* dry, 1-seeded: **Bur reed.**

- * *ramosum*. Leaves 3-sided at the base, concave on the sides: common peduncle branched: stigma linear.

Ditches. *Eng. Bot. t. 744. Curt. Lond. fasc. 5. t. 66.*

- * *simplex*. Leaves 3-sided at the base, flat on the sides: common peduncle simple: stigma linear.

Pools. *Eng. Bot. t. 745. Curt. Lond. fasc. 5. t. 67.*

- natans*. Leaves decumbent: flat: common peduncle simple: stigma ovate, very short: male head nearly solitary.

Canals. *Eng. Bot. t. 273. Flor. Dan. t. 260.*

1659. TYPHA. Male *Ament* cylindrical, hairy: *antheræ* about 3 on each filament.

Fem. *Ament* cylindrical: *seed* 1, on a feathered pedicel. *Cat's tail Reed-mace.*

* *latifolia.* Leaves somewhat sword-shaped: male and female spikes near together.

Ponds. *Eng. Bot. t. 1455. Curt. Lond. fasc. 3. t. 61.*

* *angustifolia.* Leaves semicylindrico-flattish, as long as the stalk: male and female spikes remote, leafless.

Ponds. *Eng. Bot. t. 1456. Curt. Lond. fasc. 3. t. 62.*

* *minor.* Leaves linear, convex underneath: spike interrupted, abbreviated, thickened in the middle; male leafy.

Marshes. *Eng. Bot. t. 1467. Moris. 8. t. 13. f. 3.*

1660. COMPTONIA. Male. *Ament* cylindrical, imbricate: *calyx* 2-leaved: *corol* 0: *anthera* 2-parted.

Fem. *Ament* ovate, imbricate: *calyx* 6-leaved: *corol* 0: *styles* 2: *nut* ovate.

* *asplenifolia.* Comptonia.

North America. *Pluk. phyt. t. 100. f. 6. 7.*

Stalks slender, shrubby, hairy: *leaves* alternately pinnatifid, hairy underneath: *aments* lateral, erect.

1661. AXYRIS. Male. *Calyx* 3-parted: *corol* 0.

Fem. *Calyx* 2-leaved: *corol* 0: *styles* 2: *seed* 1.

* *amaranthoides.* Leaves ovate: stem erect: spikes simple.

Siberia. *Gmel. Sib. 3. 21. t. 2. f. 2. t. 3.*

* *hybrida.* Leaves ovate: stem erect: spikes clustered.

Siberia. *Gmel. Sib. 3. 23. tab. 4. f. 1.*

* *prostrata.* Leaves obovate: stem prostrate: flowers in heads.

Siberia. *Gmel. Sib. 3. 24. t. 4. f. 2.* Female calyx 3-leaved.

1662. TRAGIA. Male. *Calyx* 3-parted: *corol* 0.

Fem. *Calyx* 5-parted: *corol* 0: *style* 3-cleft: *capsule* 3-grained, 3-celled: *seeds* solitary.

* *volubilis.* Leaves heart-ovate, pointed: stem twining.

Indies. *Sloan, Jam. 1. t. 82. f. 1. Plum. ic. 252. f. 1. 2.*

cordifolia. Leaves heart-shaped: stem twining: female bractes 5-leaved, pinnatifid.

East Indies. *Vahl. symb.* 1. p. 76.

involuta. Leaves lanceolate: female bractes 5-leaved, pinnatifid.

East Indies. *Burm. Zeyl.* t. 92. *Rheed. Mal.* 2. t. 39.

mercurialis. Leaves ovate.

East Indies. *Rheed. Mal.* 10. t. 82. *Pluk. phyt.* t. 205. f. 4.

urens. Leaves lanceolate, obtuse: slightly toothed.

Virginia. *Pluk. phyt.* t. 107. f. 5.

chamælia. Leaves lanceolate, obtuse, very entire.

East Indies. *Burm. Zeyl.* t. 25. *Rheed. Mal.* 2. t. 34.

cannabina. Leaves 3-parted.

Malabar. Leaves bristly: female-calyx 6-leaved.

corniculata. Leaves somewhat heart-ovate, tapering, near'y entire: valves of the capsules 2-horned.

Trinidad. *Vahl. eclog.* 2. 55. Leaves pubescent.

1663. HERNANDIA. Male. Calyx 3-parted: corol 3-petalled.

Fem. Calyx very entire; truncate: corol 6-petalled: drupe hollow, with an open mouth and moveable kernel.

sonora. Leaves peltate.

Jack in a box. *Myrobolan.*
West Indies. *Hort. Cliff.* t. 23. *Jacq. Amer.* t. 245

quigera. Leaves ovate, petioled at the base.

East Indies. *Rumph. Amb.* 3. t. 123.

Both are lofty trees, with a whitish brittle wood.

1664. ELATE. Male. Calyx 3-toothed: corol 3-petalled: antheræ 6, sessile.

Fem. Calyx 1-leaved: corol 3-petalled: pistil 1: stigmata 3; drupe 1-seeded.

glvesfris. Elate.

East Indies. *Rheed. Mal.* 3. 15. tab. 22-25.

Palm about 14 feet high: leaves pinnate, in a decussate order at the top of the trunk: spathes green.

1665. PHYLLANTHUS. Calyx 6-parted, campanulate: corol 0.

Fem. Styles 3, cloven; capsules 3-celled: seeds solitary.

- grandifolia*. Leaves ovate, obtuse, quite entire; stem arboreous.
America. *Hort. cliff.* 440. *Trew. Ebr. t.* 84.
- nutans*. Shrubby: leaves alternate, oval, glaucous underneath. racemes terminal, leafy, nodding.
Jamaica. *Sloan. Jam. 2.* 19. *tab.* 158. *f.* 3. *Tilia*.
- Conami*. Shrubby, with numerous diffuse branches: leaves petioled, roundish, tapering, rather obtuse at the tip: peduncles clustered, axillary.
Antigua. *Swartz. prodr.* 28.
- mimosoides*. Shrubby: branches wand-like: leaves pinnate, bearing the flowers.
Antigua. *Swartz. prodr.* 27.
- Niruri*. Leaves pinnate, bearing the flowers: flowers peduncled: stem herbaceous, erect.
East Indies. *Mart. cent. t. 2.* *Rheed. mal. 10. t.* 15.
- Urinaria*. Leaves pinnate, bearing the flowers: flowers sessile: stem herbaceous, procumbent.
East Indies. *Rheed. mal. 10. t.* 16. *Rumph. Amb. 6. t.* 17. *f.* 2.
- bacciformis*. Leaves pinnate, with 6 leaflets: female flower terminal.
Tranquebar. *Leaflets* oval, obtuse with a point.
- racemosus*. Leaves pinnate, flowering in a raceme at the tip: fruit berried, juiceless: stem shrubby.
Ceylon. *Leaflets* linear, acute.
- Emblica*. Leaves pinnate, bearing the flowers: stem arboreous: fruit berried.
Malabar. *Blackw. t.* 400. *Rumph. Amb. 7. t.* 1.
- maderaspatensis*. Leaves alternate, wedge-shaped, mucronate.
East Indies. *Male-calyx* 5-toothed.
- virgata*. Leaves simple, alternate, linear, mucronate: peduncles axillary, solitary, 1-flowered: stem shrubby.
Society Islands. *Forst. fl. aust. n.* 341.
1666. CUCUMIS. Male. *Calyx* 5-leaved: *corol* 5-parted: *filaments* 3: *antheræ* cohering.
Fem. *Calyx* 5-toothed: *corol* 5-parted: *pistil* 3-cleft: *pome* succulent: *seeds* ovate, acute, compressed.
Cucumber.

- Clocynthis*. Leaves in many divisions: fruit globular, smooth: stems rough. *Coloquintida*. Bitter apple.
Barbary. *Blackw. t. 441. Hort. Rom. 1. t. 70.*
- prophetarum*. Leaves hearted, 5 lobed, slightly toothed, obtuse: fruit globular, spinous.
Levant. *Blackw. t. 589. Jacq. hort 1. t. 9.*
- Anguria*. Leaves palmate-sinuate: fruit globular, prickly.
Jamaica. *Pluk phyt t. 170. f. 3.*
- africanus*. Leaves palmate-sinuate: fruit oval, prickly.
The Cape. *Stems somewhat angular, prostrate.*
- acutangulus*. Leaves roundish-angular: fruit with 10 acute angles.
India. *Jacq. hort. 3 t. 73 74. Grew. mus. t. 17. f. 4.*
- Melo*. Angles of the leaves rounded: fruit swelling with protuberances. *Melon.*
Persia. *Blackw t. 239. Hort. Rom. 1. t. 65.*
- Dudaim*. Angles of the leaves rounded: fruit sphærical, with a retuse umbilicus.
Levant. *Walth. hort. t. 21. Dill. Elth t. 147. f. 218.*
- Chate*. Hairy: angles of the leaves entire, rounded: fruit spindle-shaped, tapering to each end, rough with hairs.
Levant. *Alp. Egypt. 114. t. 116.*
- sativus*. Angles of the leaves straight: fruit oblong, rough.
— *Blackw. t. 4. Hort. Rom. 1. t. 63.*
- anguinus*. Leaves lobed: fruit cylindrical, very long, glabrous, smooth, variously twisted.
East Indies. *Rum, b. Amb. 5. p. 407. tab. 148.*
- flexuosus*. Leaves angular-slightly-lobed: fruit cylindrical, grooved, curved.
Japan. *Thunb. Jap. 324. Fruit delicious.*
- Conomon*. Leaves angular-slightly-lobed, toothed: fruit spindle-shaped, with 10 furrows.
Japan. *Fruit oblong, the size of a man's head.*
- maderaspatanus*. Leaves heart-shaped, undivided, denticulate: fruit globular, glabrous.
East Indies. *Pluk. alm. 123. tab. 170. f. 2.*

1667. MOMORDICA. Male. *Calyx* 5-cleft: *corol* 5-parted: *filaments* 3: *antheræ* cohering.

Fem. *Calyx* 5-cleft: *corol* 5-parted: *styles* 3-cleft: *pome* opening elastically, 3-celled.

balsamina. Fruit angular, tubercled: leaves glabrous, deeply cut in a spreading palmate manner. *Balsam apple.*

India. *Blackw. t. 539. a. b. Ludw. cat. t. 17.*

charantia. Fruit angular, tubercled: leaves villous, longitudinally, palmate.

E. & Indies. *Rumph. Amb. 5. t. 153 Rheed. mal. 8. t. 1.*

operculata. Fruit angular, tubercled, with a lid from the falling of the top: leaves lobed.

America. *Comm. rar. t. 22.*

luffa. Fruit oblong, hairy, with chain-like angles: leaves cut.

Arabia. *Hort. Rom. t. 62. V. fl. Ægypt. t. 58. 59.*

cylindrica. Fruit cylindrical, very long: leaves with acute angles.

Ceylon. *Fruit* reticulate: *seeds* black.

trifoliata. Fruit ovate, prickly: leaves ternate, toothed.

India. *Rumph. amb. 5. 414. tab. 152. f. 2.*

pedata. Fruit striate: leaves pedate, serrate.

Peru. *Feuil. Peru. 1. p. 754. tab. 41.*

Elaterium. Fruit oblong, smooth, bristly: tendrils o.

South of Europe. *Blackw. t. 108. Woodv. t. 43.*

The dried juice is the *Elaterium* of the shops.

1668 CUCURBITA. Male. *Calyx* 5-toothed: *corol* 5-cleft: *filaments* 3: *antheræ* cohering.

Fem. *Calyx* 5-toothed: *corol* 5-cleft: *pome* 3-6-celled: *seeds* with a tumid margin. *Gourd.*

lagenaria. Leaves somewhat angular, downy, with 2 glands at the base underneath: fruit woody. *Bottle gourd.*

Americæ. *Blackw. t. 522. a. b. moris. 1. t. 5. f. 1-3.*

bispida. Leaves angular: stem and leaves bristly.

Japan. *Flowers* set with ferruginous hairs.

ovifera. Leaves lobed: fruit obovate: tendrils in sevens, digitated.

Astracan. *Fruit* with 10 white longitudinal lines.

Pepo. Leaves lobed: fruit glossy.

Pompion. Pumpkin.

— *Fruit* roundish or oblong, generally hairy.

- verrucosa*. Leaves lobed : fruit knotty and warty.
America. *Fruit* with an almost woody rind.
- Melopepo*. Leaves lobed ; stem erect : fruit depressed and knotty.
East Indies. *Rumph, Amb*, 5. *tab*. 145.
- Citrullus*. Leaves many-parted.
South of Europe. *Blackw. t.* 157.
1669. SICYOS. Male. *Calyx* 5 toothed : *corol* 5-petalled : *filaments* 3 : *antheræ* cohering.
Fem. *Calyx* 5-toothed : *corol* 5-parted : *style* 3-cleft : *drupe* prickly, 1-seeded.
- angulata*. Leaves angular.
North America. *Dill. Elth. t.* 51. *f.* 59. *Pluk. phyt. t.* 26. *f.* 4.
- laciniata*. Leaves cut into several segments.
West Indies. *Plum. spec.* 3. *ic.* 243.
- Garceni*. Leaves 5-parted ; the segments sinuate with mucronate teeth : fruit ciliate.
Ceylon. *Burm. ind.* 311. *tab.* 57. *f.* 3.
1670. TRICHOSANTHES. Male. *Calyx* 5-toothed : *corol* 5-parted, ciliate : *filaments* 3 : *antheræ* cylindrical.
Fem. *Calyx* 5-toothed : *corol* 5-parted, ciliate : *styles* 3-cleft : *pome* oblong, 3-celled.
- Anguina*. Fruit round, oblong, incurved. *Snake-gourd*.
China. *Mill. fig. t.* 32. *Mich. gen.* 12. *t.* 9.
- neruifolia*. Fruit ovate, acute : leaves heart-oblong, 3-nerved, toothed.
East Indies. *Rheed. Mal.* 8. *tab.* 17.
- cucumerina*. Fruit ovate, acute : leaves hearted, angular.
East Indies. *Rheed. mal.* 8. *tab.* 15.
- amara*. Fruit turbinate-ovate.
St. Domingo. *Plum. Amer.* 86. *tab.* 101.
- pilosa*. Stem and leaves hairy : spikes axillary : bractes lanceolate, ferrate : fruit ovate, acute.
Cochinchina. *Lour. Cochinch.* 588.
- tricuspidata*. Fruit ovate, acute : leaves tricuspidate, glabrous, many-nerved : stipules roundish, thick, crenate : spikes axillary.
Cochinchina, *Lour. Cochineb.* 589.

- scabra.* Fruit roundish : leaves roundish, rugged, much wrinkled : peduncles 1-flowered.
Cochinchina. *Lour. Cochinch.* 589.

ORDER IV. TETRANDRIA.

1671. LITTORELLA. Male. *Calyx*, 4-leaved : *corol* 1-petalled, 4-cleft : *stigmata* very long.
Fem. *Calyx* 0 : *corol* 1-petalled, unequally 3-cleft : *style* filiform, very long : *nut* 1-celled.

- **lacustris.* Littorella. *Shore-weed.*
Sand, marshes. *Eng. Bot. t.* 468. *Flor. Dan. t.* 170.

1672. URTICA. Male. *Calyx* 4-leaved : *corol* 0 : rudiment of the germ cup-shaped.
Fem. *Calyx* 2-leaved : *corol* 0 : *seed* 1, superior, polished. *Nettle.*

A. Leaves opposite.

- **pilulifera.* Leaves ovate, serrate : female-flowers in heads.
Wastes. *Eng. Bot. t.* 148. *Blackw. t.* 321. 1.
- balearica.* Leaves hearted, serrate : female-flowers in heads.
Balearic Islands. *Blackw. t.* 321.
- Dodarfii.* Leaves ovate, nearly very entire : female-flowers in heads.
— *Blackw. t.* 211. *f.* 2. *Flor. berol. t.* 200.
- pumila.* Leaves ovate : racemes 2-parted, short.
Canada. *Racemes* as long as the petioles.
- grandiflora.* Leaves ovate : stipules heart-shaped, undivided : racemes paniced, as long as the leaves.
Jamaica. *Sloan. Jam. 1.* 124. *tab.* 83. *f.* 2.
- verticillata.* Leaves ovate, serrate : flowers numerous, axillary, sessile.
Arabia. *Vahl. symb.* 176. Flowers in a sort of whorl.
- reticulata.* Leaves oblong, acute, reticulate underneath : stipules ovate, entire, racemes paniced, shorter than the leaves.
Jamaica. *Swart. prodr.* 35.
- **urens.* Leaves opposite, elliptic, 3 or 5-nerved : racemes nearly simple.
Common. *Curt. Lond. fasc.* 6. *t.* 70. *Flor. Dan. t.* 739.
- laxa.* Leaves ovate, pointed, serrate : flowers diœcious : males peduncled, crowded ; females racemed : stem lax.
Hispaniola. *Swartz. prodr.* 35.

- betulaefolia*. Leaves heart-roundish, ferrate: stipules entire: flowers racemed: stem prostrate, ascending.
Hispaniola. *Swartz. prodr.* 35.
- diffusa*. Leaves ovate, acutely ferrate, bristly: stipules rolled back: racemes paniced, longer than the leaf: stems procumbent.
Jamaica. *Swartz. prodr.* 35.
- rufa*. Rough-haired: leaves oblong, ferrate: stipules roundish, permanent: racemes terminal: stem somewhat shrubby, branched.
Jamaica. *Swartz. prodr.* 35.
- dioica*. Leaves hearted: racemes much branched, in pairs, mostly diæcious.
Wastes. *Curt. Lond. fasc. 6. t. 69. Woodv. t. 146.*
- caudata*. Leaves hearted: racemes in pairs, quite simple, very long.
Arabia. *Vahl. symb. 2. p. 96.*
- membranacea*. Leaves on long petioles: male racemes filiform, membranaceous, naked underneath; females sessile.
Barbary. *Desfont Atl. 2. 340.*
- rugosa*. Leaves oblong, ferrate, nerved, wrinkled; racemes terminal, diæcious: stem simple, erect.
Hispaniola. *Swartz. prodr.* 35.
- repens*. Leaves oval: racemes monœcious; stem simple, creeping.
Hispaniola. *Swartz. prodr.* 35.
- cannabina*. Leaves 3-parted and cut.
Siberia. *Amm. ruth. t. 25. Flor. berol. t. 300.*
- gracilis*. Leaves ovate-lanceolate, nearly naked; stem and petioles bristly: racemes in pairs.
Hudson's Bay. *Aiton, kew. 3. p. 341.*
- alienata*. Leaves ovate, quite entire, marked with lines.
Ceylon. *Flowers axillary, sessile.*
- nudicaulis*. Leaves nearly terminal, oblong, pointed, entire, 3-nerved: stem angular, naked below, racemed: flowers diæcious.
Jamaica. *Swartz. prodr.* 35.
- Bolonifera*. Somewhat caulescent; leaves oblong, slightly ferrate: flowers diæcious: shoots radical.
Hispaniola. *Swartz. prodr.* 36.

- Parietaria*. Leaves lanceolate, quite entire, narrower on one side.
Jamaica. *Sloan. Jam. 1. 144. tab. 93. f. 1*
- ciliata*. Leaves ovate, ciliate, ferrate: flowers terminal, clustered,
slightly peduncled, monœcious: stem divaricate.
Jamaica. *Swartz. prodr. 36.*
- radicans*. Leaves wedge-ovate, crenate, shining: flowers axillary,
nearly sessile: stem and branches rooting.
Jamaica. *Swartz. prodr. 36*
- ciliaris*. Leaves ovate, ciliate; racemes divaricate.
South America. *Plum. spec. 10. ic. 120. f. 2.*
- nummulari-
folia*. Leaves orbicular, crenate, hairy: flowers terminal, clus-
tered, monœcious: stem filiform, simple, creeping.
Jamaica. *Sloan. Jam. 1. p. 206. tab. 131. f. 4.*
- depressa*. Leaves roundish, crenate, glabrous: flowers terminal, clus-
tered: stem creeping, slightly divided.
Jamaica. *Swartz. prodr. 36.*
- herniaroides*. Leaves roundish, entire, terminal, in fours: flowers monœ-
cious, distinct: stem filiform, diffuse.
Hispaniola. *Swartz. Act. Holm. 8. t. 2. f. 1.*
- errulata*. Leaves lanceolate, ferrate, glabrous: peduncles axillary,
shorter than the leaves: flowers in heads, monœcious:
stem shrubby, 4-sided.
Jamaica. *Swartz. prodr. 36.*
- lucida*. Leaves semipinnate, shining: peduncles axillary, longer
than the leaf: flowers in heads: stem shrubby, an-
gular.
Jamaica. *Swartz. prodr. 36.*
- microphylla*. Leaves ovate, acute, very entire, with smaller ovate-ones
intermixed: flowers diœcious: stems nearly simple,
ascending.
Jamaica. *Swartz. prodr. 37. Parietaria. Sp. pl. 1492.*
- trianthe-
moides*. Leaves oblong, very entire, with larger alternate ones:
flowers monœcious: stem erect, branched.
Hispaniola. *Swartz. prodr. 37.*
- enneifolia*. Leaves wedge-form, obovate, toothed at top, with large
alternate ones: racemelets monœcious, peduncled.
Jamaica. *Swart. prodr. 37.*

- spicata*. Leaves ovate, acute, ferrate, glabrous : spikes capillary, interrupted.
Japan. *Thunb. Jap.* 69. Leaves 3-nerved, rough.
- macrophylla*. Leaves roundish, doubly ferrate : flowers panicled.
Japan. *Thunb. Jap.* 28. Leaves 3 nerved, hairy.
- rhombea*. Leaves very entire, somewhat rhombic, 3-nerved.
Mexico. *Linn. suppl.* 417. Racemes axillary, branched.
- virgata*. Leaves ovate, ferrate, 3-nerved : spikes axillary, solitary, interrupted.
Society Islands. *Forst. prodr. n.* 345.
- ferox*. Leaves halbert-shaped, hearted, bristly-ferrate : racemes in pairs, divaricate : stipules hearted.
New Zealand. *Forst. prodr. n.* 346.
- B. *Leaves alternate.*
- lappulacea*. Leaves ovate, rather rough : flowers terminal, nearly sessile, monoecious : seeds 3-sided : stem diffuse.
Jamaica. *Swartz. Aët. Holm.* 8. f. 69. t. 2. f. 2.
- sessiflora*. Leaves lance-ovate, crenate : racemes very short, axillary : flowers monoecious, distinct : stem erect.
Jamaica. *Swart. prodr.* 37.
- elata*. Leaves ovate, acute, ferrate : stem arboreous : branches nearly naked, bearing racemes : flowers diœcious.
Jamaica. *Swart. prodr.* 37.
- asiuans*. Leaves heart-shaped : racemes forked : fruit in orbicular corymbs.
Surinam. *Rumph. Amb.* 5. p. 214. t. 79. f. 1.
- argentea*. Leaves elliptic-lanceolate, entire, glaucous underneath : spikes axillary, solitary, interrupted.
Society Islands. *Forst. prodr. n.* 343.
- ruderalis*. Leaves heart-ovate, obtusely ferrate : panicles axillary, divaricately corymbed.
Society Islands. *Forst. prodr. n.* 344.
- heterophylla*. Leaves ovate, entire and 3-lobed, ferrate-toothed.
East Indies. *Rheed. Mal.* 2. p. 77. tab. 41.
- capitata*. Leaves heart-shaped : glomerules in spikes.
Canada. *Stem* angular, naked : *spike* simple.

divaricata. Leaves ovate : racemes compound, divaricate.

Virginia, Canada. *Pluk. alm.* 393. t. 237. f. 2.

canadensis. Leaves heart-ovate : aments branched, 2-rowed, erect.

Canada; Siberia. *Moris. sect.* 11. tab. 25. f. 2.

hirsuta. Leaves heart-ovate, ferrate : racemes compound : stem and petioles rough-haired.

Arabia. *Vahl. symb.* 1. 77.

interrupta. Leaves ovate-hearted, ferrate, rather shorter than the petiole : spikes solitary, interrupted.

India. *Rumph. Amb.* 6. t. 20. *Rheed, Mal.* 1. t. 40.

nivea. Leaves somewhat orbicular, acute at both ends, white downy underneath.

China. *Rumph. Amb.* 5. p. 214. t. 79. f. 1.

baccifera. Leaves heart-shaped, toothed, prickly : stem shrubby : female calyx berried.

America. *Plum. spec.* 11. ic. 260.

capensis. Leaves heart-shaped, not stinging, pubescent underneath : spikes interrupted.

The Cape. *Linn. suppl.* 417. Spikes lateral, erect.

frutescens. Leaves oblong, with a lanceolate cusp at the end, snow-white underneath.

Japan. *Thunb. Jap.* 70. Stem shrubby, purple.

simulans. Leaves oblong, tapering to the base, entire : panicles axillary.

Japan. *Thunb. Jap.* 70. A small shrub or tree.

japonica. Leaves heart-shaped, villous : flowers clustered in heads.

Japan. *Thunb. Jap.* 70. Stem pubescent : leaves hairy.

muralis. Leaves ovate, 3-nerved, pubescent, ferrate : heads axillary, sessile.

Arabia. *Vahl. symb.* 1. 77. Stem hoary at top.

villosa. Leaves heart-shaped, rough-haired : globules sessile.

Japan. *Thunb. Jap.* 70. Leaves obtuse.

1673. MORUS. Male. Calyx 4-parted : corol o.

Fem. Calyx 4-leaved : corol o : styles 2 : calyx becoming a berry : seed 1. Mulberry.

alba. Leaves obliquely heart-shaped smooth.

China. Bark whitish : leaves undivided, or lobed.

- nigra*. Leaves heart-shaped, rough.
Italy. *Blackw. t.* 126. *Kniph. orig.* 3. *t.* 64.
- papyrifera*. Leaves palmate: fruit bristly.
Japan. *Kæmpf. amæn. t.* 472. *Seba. thes.* 1. *t.* 28. *f.* 8.
The Japanese make their paper of the bark.
- rubra*. Leaves heart-shaped, villous underneath: ament cylindrical.
Virginia. *Pluk. ulm.* 253. *t.* 246. *f.* 4.
- indica*. Leaves ovate-oblong, equal on both sides, unequally ferrate.
India. *Rheed. Mal.* 1. *t.* 49. *Rumph. Amb.* 7. *t.* 5.
- sibirica*. Leaves ovate-oblong, equal on both sides, equally ferrate.
Siberia, Russia. *Pall. Rojs.* 1. *p.* 2. *tab.* 52.
- sinctoria*. Leaves oblong, more produced on one side at the base: spikes axillary. *Fustic-wood.*
America. *Sloan. Jam.* 2. 158. *f.* 1. *Jacq. Amer.* 1. 180.
1674. SERPICULA. Male. *Calyx* 4-toothed: *corol* 4-petalled.
Fem. *Calyx* 4-parted: *corol* 0: *nut* downy, with cartilaginous swellings.
- verticillata*. Leaves in whorls, prickly ferrate.
East Indies. *Roxb. Coromand. tab.* 164.
- repens*. Leaves alternate, linear: stem creeping.
The Cape. *Bergm. Cap.* 350. *t.* 5. Laurembergia.
1675. CICCICA. Male. *Calyx* 4-leaved: *corol* 0.
Fem. *Calyx* 3 or 4-leaved: *corol* 0: *styles* 4, 2-parted: *capsule* 4 grained: *seeds* solitary.
- disticha*. Ciccica.
China. *Gærtn. sem.* 2. 478. *t.* 180. Terme.
Tree with long simple branches: *leaves* alternate, 2-rowed; lower-ones rounded-ovate; upper-ones ovate-lanceolate, pointed, entire: *flowers* axillary, in sessile heads.
1676. BUXUS. Male. *Calyx* 3-leaved; *corol* 2-petalled: rudiment of a germ.
Fem. *Calyx* 4-leaved: *corol* 3-petalled: *styles* 3: *capsule* 3-beaked, 3-celled: *seeds* 2.

* *sempervirens*. Buxus.

Box tree.

Chalk hills. *Eng. Bot.* t. 1341. *Blackw. t.* 196.

1. Arborecent : leaves ovate.
2. Arborecent : leaves lanceolate.
3. A very low shrub : leaves nearly orbicular.

1677. BETULA. Male. *Calyx*, scale of the ament
1-leaved, 3-cleft, 3-flowered : *corol* 4-parted.

Fem. *Calyx* scales of the ament, 1-leaved, about 3-cleft,
2-flowered : *styles* 2 : *seeds* compressed.

Birch-tree.

* *alba*. Leaves deltoid, acute, doubly ferrate, nearly glabrous : scales
of the cones with rounded lateral lobes : petioles gla-
brous, longer than the peduncle.

Woods. *Blackw. t.* 240. *Evelyn. p.* 96. *Ag.*

populifolia. Leaves deltoid, with long points, unequally ferrate, quite
glabrous : scales of the cones with rounded lateral
lobes : petioles glabrous.

North America. *Aiton. Hort. kew.* 3. p. 336.

nigra. Leaves rhombic-ovate ; acute, doubly ferrate, pubescent,
entire at the base : scales of the cones villous, with
linear equal divisions.

North America. *Gärtn. frucht.* 2. p. 54. *tab.* 90.

papyracea. Leaves ovate, pointed, doubly ferrate, with the veins hairy
underneath.

North America. *Aiton. Hort. kew.* 3. p. 337.

lenta. Leaves hearted, oblong, pointed, ferrate.

North America. *Leaves* finely and sharply ferrate.

excelsa. Leaves ovate, acute, ferrate : scales of the cones with
rounded lateral lobes : petioles pubescent, shorter than
the peduncles.

North America. *Aiton. Hort. kew.* 3. p. 337.

* *nana*. Leaves orbicular, crenate.

Scotch mountains. *Lighf. t.* 25. *Flor. Lapp. t.* 6. *f.* 4.

pumila. Leaves obovate, crenate.

North America. *Jacq. hort.* 2. p. 56. *tab.* 122.

oblongata. Peduncles branched : leaves oval, rather obtuse, glutinous ;
axils of the veins villous underneath.

South of Europe. *Leaves* oblong or elliptic.

- * *Alnus*. Peduncles branched: leaves roundish wedge-form, very obtuse, repand, ferrate, glutinous: axils of the veins, villous underneath. *Alder*. Watery places. *Engl. Bot. t. 1508. Hunt. Evel. p. 240. tab.*
2. Leaves pinnatifid. *Aiton. kew. 3. p. 338.*
- ferrulata*. Peduncles branched: leaves obovate, acute, with the veins and axils of the veins villous underneath: stipules oval, obtuse. *Pennsylvania. Aiton. Hort. kew. 3. p. 338.*
- incana*. Peduncles branched: leaves roundish elliptic, acute, pubescent underneath: axils of the veins naked: stipules lanceolate. Europe. *Leaves glaucous or green underneath.*
- crispa*. Peduncles branched: leaves ovate, acute, slightly undulate, with the veins hairy underneath; axils naked: stipules roundish-ovate. *Newfoundland. Aiton. Hort. kew. p. 339.*
- daurica*. Leaves ovate, pointed, ferrate, hairy on the nerve. *Siberia. Pal. it. 3. app. t. KK. f. 4. fl. Ros. t. 39.*
- fruticosa*. Leaves rhombic-ovate, equally ferrate, glabrous. *Siberia. Pall. it. 3. t. KK. f. 1-3. fl. Ros. t. 40 A.C.*
1678. AUCUBA. Male. *Calyx* 4 toothed: *corol* 4-petalled: *berry* 1-seeded.
- Fem. *Calyx* 4-toothed: *corol* 4-petalled: *nectary* 0: *nut* 1-celled.
- japonica*. Aucuba. Japan. *Thunb. Jap. t. 12, 13. Kæmpf. ic. select. t. 6.* Tree with somewhat fleshy branches: leaves clustered at the ends of the branches, oblong, remotely ferrate, glabrous: flowers in terminal more than decompound panicles.
1672. BOEHMERIA. Male. *Calyx* 4-parted: *corol* 0. Fem. *Calyx* 0, but crowded scales, between each of which is an obovate germ: *style* 1: *seed* single, compressed.
- caudata*. Leaves opposite, ovate, acute, ferrate: racemes very long, pendulous: flowers diœcious: stem shrubby. *Jamaica. Swart. prodr. 34.*

- littoralis*. Leaves opposite, ovate-lanceolate, serrate: flowers conglomerate, axillary, monœcious, mixed: stem herbaceous, 4-sided.
Hispaniola. *Savarez. prodr.* 34.
- cylindrica*. Leaves opposite, ovate, pointed, serrate: racemes spiked, axillary, erect, simple.
North America, Jamaica. *Sloan. Jam.* 1. t. 82. f. 2.
- ramiflora*. Leaves alternate, broad-lanceolate, pointed, serrate, wrinkled: flowers clustered, axillary and lateral, monœcious, distinct; males with 3 stamina.
West Indies. *Jacq. Amer.* 246. tab. 157.
- hirta*. Leaves alternate, ovate, acute, serrate, hairy: flowers monœcious, crowded, axillary, mixed.
Jamaica. *Savarez. prodr.* 34.

1680. EMPLEURUM. Male. *Calyx* 4-cleft: *corol* 0.
Fem. *Calyx* 4-cleft, inferior: *corol* 0: *stigmata* cylindrical, placed on the lateral toothlet of the germ: *capsule* opening on the side: *seed* 1, coated.

- serrulatum*. Empleurum.
The Cape. *Diosma unicapularis. Linn. suppl.* 155.
Shrub with wand-like branches: leaves alternate, linear-lanceolate, edged with pellucid dots: peduncles lateral, few-flowered.

1681. ARGYTHAMNIA. Male. *Calyx* 4-leaved: petals 4.
Fem. *Calyx* 5-leaved: *corol* 0: *styles* 3, forked: *capsule* 3-celled: seeds solitary.

- candicans*. Argythamnia.
Jamaica. *Sloan. Jam.* 1. 133. tab. 86 f. 3.
Shrub with a whitish bark: leaves oval, serrate: flowers axillary, on very short peduncles.

1682. TRICERA. Male. *Calyx* 4-leaved: *corol* 0: filaments ovate.
Fem. *Calyx* 5-leaved: *corol* 0: *styles* 3, conical: *capsule* 3-horned, 3-celled: seeds in pairs.

- laevigata*. Tricera.
Jamaica. *Savarez. prodr.* 38. *Flor. ind. occ.* 1. p. 333.
Shrub with square branches: leaves ovate-lanceolate, acute, convex, entire: flowers in simple axillary umbels.

ORDER V. PENTANDRIA.

1683. NEPHELIUM. *Calyx* 5-toothed: *corol* 0: *antheræ* cloven at the base.

Fem. *Calyx* 4-cleft: *corol* 0: *germs* 2, with 2 styles to each: *capsules* 2, bristly, 1-seeded.

lappaceum. Nephelium.

East Indies. *Leaves* pinnate in 2 pair; leaflets obovate, the outer-ones larger: *racemes* erect, shorter than the leaves.

1684. XANTHIUM. Male. *Calyx* common, imbricate: *florets* 1-petalled, funnel-form, 5-cleft: *receptacle* chaffy.

Fem. *Calyx* 2-leaved, 2-flowered: *corol* 0: *drupe* dry, prickly, bifid: *nut* 2-celled. *Small Burdock.*

strumarium Stem unarmed: leaves heart-shaped, 3-nerved at the base. Dunghills. *Flor. Dan. t. 970. Blackw. t. 444.*

orientale. Stem unarmed: leaves ovate, wedge-form at the base, 3 or 5-lobed.

East Indies. *Linn. dec. t. 17. Moris. scd. 15. t. 2. f. 2.*

spinosum. Spines ternate: leaves 3-lobed.

France, Portugal. *Moris. 15. t. 2. f. 3. Magn. hort. t. 208.*

1685. AMBROSIA. Male. *Calyx* common, 1-leaved: *florets* 1-petalled, funnel-form, 3-cleft: *receptacle* naked.

Fem. *Calyx* 1-leaved, 1-flowered: *corol* 0: *nut* 1-seeded, crowned with the 5 teeth of the hardened calyx.

trifida. Leaves 3-lobed, serrate.

North America. *Moris. 3. scd. 6. tab. 1. f. 4.*

elator. Leaves pinnatifid: racemes paniced terminal, glabrous. Virginia, Canada. *Leaves* wrinkled, hairy.

artemisifolia Leaves doubly pinnatifid; the first at the origin of the branchlets undivided and very entire: racemes lateral. North America. *Pluk. alm. 27. tab. 10. f. 5.*

arborescens. Leaves pinnatifid, hairy : racemes solitary, terminal : stem shrubby.

— *Mart. Mill. Diss. n. 5.* Spikes simple.

maritima. Leaves many-parted : spikes solitary, hairy, sessile.
Cappadocia. *Kniph. orig. t. 23.* Leaves pubescent.

1586. CLIBADIUM. Male. *Calyx* common, imbricate : *florets* of the disk 5-cleft.

Fem. *Calyx* common, imbricate : *florets* of the ray female, 3 or 4 : *seed* an umbilicate drupe.

surinamense Clibadium.

Surinam. *Leaves* ovate, pointed, acutely crenate, rough : *perianths* opposite : *common-calyx* violet when ripe.

1587. AMARANTHUS. Male. *Calyx* 3-leaved : *corol* 0 : *stamina* 3 or 5.

Fem. *Calyx* 3-leaved : *corol* 0 : *styles* 3 : *capsule* 1-seeded, opening, horizontally all round ; *seed* 1.

A. *With 3 stamina.*

graciliana. Glomerules axillary : leaves lanceolate, repand, obtuse.
North America. *Willden. monogr. 8. t. 4. f. 7.*

albus. Glomerules axillary : leaves roundish ovate, emarginate : stem 4-sided, simple.
Philadelphia. *Willden. monogr. 9. t. 1. f. 2.*

deflexus. Spike very short, few-flowered : leaves rhombic-lanceolate : capsules not gaping.
— *Willden. monogr. 10. tab. 10. f. 20.*

polygonoides Glomerules 3-leaved : female flowers funnel-form : leaves rhombic ovate, emarginate,
Indies. *Willd. mon. 11. t. 6. f. 12. Sloan. Jam. 1. t. 92. f. 3.*

polygamus. Glomerules with 2 stamina, somewhat spiked, ovate : flowers hermaphrodite and female : leaves lanceolate.
India. *Rumph. Amb. 5. 231. tab. 82. f. 1.*

mangostanus Glomerules somewhat spiked, axillary, solitary : leaves rhombic-roundish.
India. *Willden. monogr. 13. tab. 12.*

sinuatus. Glomerules somewhat spiked, 3-leaved. axillary, in pairs : leaves rhombic-lanceolate.
Japan ? *Willd. monogr. 14. tab. 7. f. 14.*

- melancholicus*. Glomerules axillary, peduncled, roundish : leaves ovate-lanceolate, coloured.
East Indies. *Willden. monogr.* 15. *tab.* 9. *f.* 18.
- gangeticus*. Glomerules in very short spikes, ovate : leaves ovate-lanceolate, emarginate.
India. *Willden. monogr.* 16. *tab.* 6. *f.* 11.
- oleraceus*. Glomerules axillary, branching : leaves wrinkled, oblong, emarginate.
India. *Willden. monogr.* 17. *tab.* 5. *f.* 9.
- viridis*. Glomerules axillary, in pairs : male-flowers 3-cleft : leaves ovate, emarginate : stem erect.
Jamaica. *Willd. mon.* t. 8. *f.* 16. *Sloan. Jam.* 1. t. 92. *f.* 1?
- tricolor*. Glomerules sessile, roundish, clasping : leaves lanceolate, coloured.
India. *Hort. rom.* 4. t. 55. *Moris. sect.* 5. t. 31. *f.* 1.
- lividus*. Glomerules somewhat spiked, rounded : leaves elliptic, retuse : stem erect.
Virginia. *Willden. monogr.* 20. *tab.* 1. *f.* 1.
- tristis*. Glomerules in loose spikes : leaves somewhat hearted : ovate, emarginate, shorter than the petioles.
China. *Willd. mon.* 21. t. 5. *f.* 10.
- * *Blitum*. Glomerules somewhat spiked, lateral : flowers 3-leaved, leaves ovate, retuse : stem diffuse
Wastes. *Moris. sect.* 5. t. 30. *f.* 5. *Lob. ic.* 1, 250. 1.
- scandens*. Spikes interrupted, compound ; spikelets incurved : leaves ovate : stem weak.
America. Stems loose, flexuous, climbing.

B. *With 5 stamina,*

- hellicus*. Flowers in simple spikes, axillary, glomerate : leaves ovate, acute.
— *Willd. mon.* t. 13. *f.* 13. t. 11. *f.* 22. *Barr. ic.* t. 643,
- hybridus*. Racemes decompound, crowded, erect : leaves ovate-lanceolate.
Virginia. *Willd. monogr.* 26. t. 9. *f.* 17. *Barr. ic.* 648. 650.
- strictus*. Racemes compound, erect, stiff : leaves ovate, concave.
— *Willden. monogr.* 27. *tab.* 3. *fig.* 5.
- lætus*. Racemes compound, erect : leaves ovate, obtuse, mucronate.
— *Willden. monogr.* 28. *tab.* 8. *f.* 15.

- cruentus.* Racemes decompound, naked, spreading: leaves lance-ovate.
East Indies. *Willd. mon. 29. Mart. cent. t. 6.*
- hypochondriacus.* Racemes compound, crowded, erect: leaves oblong-lanceolate, mucronate. *Prince's feather.*
Virginia. *Leaves very acute: flowers rich purple.*
- sanguineus.* Racemes compound, erect: branches spreading, glabrous: leaves oblong, acute.
Bahamas. *Willd. mon. 31. t. 2. f. 3. Mill. f. t. 22.*
- paniculatus.* Racemes compound: branches spreading, pubescent: leaves ovate-lanceolate.
America. *Willden. monogr. 32. t. 2. f. 4.*
- retroflexus.* Racemes more than decompound, erect: branches pubescent: leaves ovate, waved.
Pensylvania. *Willden. monogr. 33. t. 11. f. 21.*
- flavus.* Racemes compound, nodding: leaves ovate-lanceolate.
India. *Willden. monogr. 35. t. 3. f. 6.*
- caudatus.* Racemes decompound cylindrical, pendulous very long:
Love lies bleeding.
Indies. *Moris. sect. 5. t. 31. f. 2. Barr. ic. 657. 660. 664.*
- spinosus.* Racemes terminal, compound: axils spinous.
Indies. *Willd. mon. 38. t. 4. f. 8. Rumph. Amb. 5. t. 83. f. 1.*

1688. BRYONIA. Male. *Calyx 5-toothed: corol 5-cleft: filaments 3: antheræ 5.*

Fem. *Calyx 5-toothed: corol 5-cleft: style 3-cleft: berry inferior, nearly globular, many-seeded. Bryony.*

- alba.* Leaves palmate, rough with dots both sides: flowers monœcious: berries black.
South of Europe. *Blackw. t. 533. a. b. Flor. Dan. t. 813.*
- *dioica.* Leaves palmate, with callous dots both sides: flowers dioecious: berries red.
Hedges. *Eng. Bot. t. 439. Woodv. t. 189. Blackw. t. 37.*
- palmata.* Leaves palmate, glabrous, smooth, 5-parted; with lanceolate repand-ferrate divisions.
Ceylon. *Veins and peduncles rough with dots.*
- randis.* Leaves heart-shaped, angular, nearly glabrous, glandular at the base underneath; tendrils simple.
Indies. *Burm. Zeyl. t. 19. f. 2. Rumph. Amb. 5. t. 166. f. 1.*

- cordifolia.* Leaves heart-shaped, oblong, 5-lobed, toothed, rough :
petioles 2-toothed.
Ceylon. *Teeth* of the petioles at first glands.
- lanciniosa.* Leaves palmate, with lanceolate serrate divisions: petioles
muricate.
Ceylon. *Herm. Lugdb. t. 97. Herm. parad. t. 107.*
- africana.* Leaves palmate, 5-parted, glabrous and smooth each side ;
the divisions pinnatifid.
Ethiopia. *Herm. parad. t. 108.*
- cretica* Leaves palmate, with callous dots above.
Crete. Whole plant rough.
- scabra.* Leaves hearted, angular, villous underneath, with callous
dots above : tendrils simple: berries globular: seeds
glabrous.
The Cape. *Linn. suppl. 423.*
- scabrella.* Leaves hearted, angular and lobed, callous and bristly :
tendrils simple: berries globular: seeds muricate.
East Indies. *Linn. suppl. 424.*
- japonica.* Leaves hearted, undivided and angular, toothed, with minute
hairs above
Japan. *Thunb. Jap. 325.* Leaves pale underneath.
- latebrosa.* Leaves somewhat 3-lobed, hairy, tapering to a point at the
base.
Canaries. *Aiton. Hort. Kew. 3. p. 384.*
- verrucosa.* Leaves hearted, angular, with callous dots above and on
the veins underneath ; the callosities remote : tendrils
simple: berries globular.
Canaries. *Aiton. Hort. Kew. 3. p. 385.*
- racemosa.* Leaves hearted, 3-lobed ; the upper-ones ovate and some-
what rugged: flowers racemed: berries nodding, oval.
Jamaica. *Plum. fil. 83. t. 97.*
- variegata.* Leaves palmate, with lanceolate segments, spotted on the
upper-side, smooth on the under-side: berries ovate,
scattered.
— *Mill. Dict. n. 5.*
- bonariensis.* Leaves palmate, 5-parted, hairy, with obtuse segments.
Buenos Ayres. *Dill. Elth. 58. t. 50 f. 58.*

- bastata*. Leaves halbert-shaped, denticulate, glabrous; peduncles many-flowered.
China. *Lour. Cochinch.* 594.
- triloba*. Leaves 3-lobed, 5-nerved: stipules roundish, concave: peduncles 1-flowered.
Cochinchina. *Lour. Cochinch.* 595.
- cochinchi-
ensis*. Leaves 5-angled, rough: berries 3-celled, 10-angled.
Cochinchina. *Lour. Cochinch.* 595.

1689. SECHIUM. *Calyx* half 5-cleft: *corol* 5-cleft, with 10 hollows in the upper-part of the tube.

Male. *Filaments* 5, cohering.

Fem. *Stigma* peltate, 5-cleft: *pericarp* fleshy, ovate-turbinate, 1-seeded.

- edule*. Sechium. *Choco vine*.
West Indies. *Jacq. Amer. pict. t. 245. Brown Jam.* 355.
Plant climbing by tendrils like the cucumber tribe: *leaves* heart-angular, rugged above, with the angles toothed and acute.

ORDER VI. HEXANDRIA.

1690. ZIZANIA. Male. *Calyx* 0: *corol*, glume 2-valved, awnless, mixed with the females.

Fem. *Calyx* 0: *corol*, glume 1-valved, hooded, awned: *styles* 2: *seed* 1, invested with the plaited *corol*.

- aquatica*. Panicle racemed below, spiked at top.
North America. *Linn. Trans. 7. p. 264, tab. 13.*

- terrestris*. Panicle somewhat racemed.
Malabar. *Rheed. Mal. 12. p. 113 tab. 60.*

1691. PHARUS. *Calyx*, glume 2-valved, 1-flowered.

Male. *Corol*, glume 2-valved.

Fem. *Corol*, glume 1-valved, long, involving: *seed* 1.

- latifolius*. Panicle branched: calyx apetalous, naked, awnless.
Jamaica. *Brown. Jam. t. 38. f. 3. Sloan. 1. t. 73. f. 2.*

- ciliatus*. Panicle somewhat branched: calyx apetalous, ciliate, awnless.
East Indies. *Retz. obs. 5. 23. n. 56.*

- aristatus*. Panicle umbelled: calyx apetalous, naked, awned.
East Indies. *Retz. obs. 5. 23. n. 57.*

1692. COCOS. *Calyx* 3-parted: *corol* 3-petalled: *stigmata* 3: *drupe* coriaceous.

nucifera. Unarmed: fronds pinnate: leaflets folded back, sword-shaped.
Cocoa-nut tree.

Tropics. *Jacq. Amer.* 277. *t.* 169. *pict.* *t.* 135.

butyracea. Unarmed: fronds pinnate: leaflets simple.
South America. *Pis. Bras.* 62. *f.*

guineensis. The whole covered with subulate spines: fronds distant: root creeping. *Prickly pole.*
Carthageria. *Jacq. Amer.* *t.* 171. *f. pict.* *t.* 256.

aculeata. Sharp prickly: trunk fusiform: fronds pinnate: stipes and spathes spinous. *Macaw-tree.*
Caribbees. *Sloan. Jam.* 2. *t.* 214. *Grew. mus.* *t.* 16.

Nypa. Unarmed: fronds pinnate: spadix of the male-flowers round; of the females roundish: *drupe* grooved.
East Indies. *Rumph. Amb.* 1. *p.* 69. *t.* 16.

1693. BACTRIS. Male. *Calyx* 3-parted: *corol* 1-petaled, 3-cleft: *stamina* seated on the middle of the tube.

Fem. *Calyx* 3-toothed: *corol* 3-toothed: *stigmata* obscurely 3-cleft: *drupe* coriaceous.

minor. Fruit nearly round.
Carthageria. *Jacq. Amer.* *t.* 171. *f.* 1. *ic. sel.* *t.* 256.

major. Fruit ovate.
Carthageria. *Jacq. Amer.* *t.* 171. *f.* 2. *ic. sel.* *t.* 236.
Both are tall prickly trees with frondose leaves.

1694. GUETTARDA. *Calyx* cylindrical, very entire: *corol* funnel-form, 6 or 7-cleft: *pistil* 1: *drupe* dry.

speciosa. Leaves somewhat hearted, ovate, obtuse with a point, silky underneath: *stamina* 6 or 7.
Jamaica. *Brown. Jam.* 205. *t.* 20. *f.* 1.

rugosa. Leaves somewhat hearted, ovate, acute, downy underneath, rough above: *stamina* 6.
Santa Cruz. *Swart. prodr.* 59. *Vahl. symb.* 3. 50.

Elliptica. Leaves elliptic, pubescent: *stamina* 4.
Jamaica. *Swart. prodr.* 59.

*membrana-
cea.* Leaves ovate, pointed, membranaceous, roughish with bristles: stamina 4.

Hispaniola. Swartz. *prodr.* 59.

1695. EPIBATERIUM. *Calyx* double; the outer 6-leaved; inner 3-leaved and larger: *petals* 6; 3 of them outer, and between the calycine leaflets; 3 inner: *drupes* 3, nearly globular, mucronate with the 3 permanent styles, inclosing a kidney-form nut.

pendulum. Epibaterium.

South Sea Islands. *Forst. nov. gen. p.* 107. *t.* 54.

1696. POMETIA. *Calyx* 1-leaved, 6-cleft: *petals* 6. Male. *Filaments* 6, on the margin of the nectary. Fem. *Berry* globular, with a single seed in the centre.

pinnata. Leaves pinnate: racemes more than decompose, terminal. South sea Islands. *Forst. prodr. n.* 392.

ternata. Leaves ternate: racemes nearly simple, axillary.

New South Wales. *Forst. prodr. n.* 393.

Calyx 4-leaved: *petals* 4: *nectary* 4-cleft: *stamina* 8: *styles* 2: *germs* 2, 1-celled, valveless, 1-seeded.

ORDER VIII. POLYANDRIA: 8 or more stamina.

1697. THOA. *Calyx* 0: *corol* 0. Male. *Stamina* numerous, at the joints of the spike. Fem. *Germes* 2, at the base of the male spike, one on each side, sessile: *stigma* 3 or 4-cleft: *seed* 1, in a brittle shell, covered with a brittle web.

urens. Thoa.

Guiana. *Aubl. Guian. p.* 875. *tab.* 336.

Shrub with twisted climbing branches: *leaves* oval, mucronate, entire, glabrous: *spikes* axillary and terminal.

1698. BEGONIA. *Calyx* 0: *corol* 4-8-petalled.

Male. *Filaments* numerous, on the receptacle.

Fem. *Capsule* winged, many-seeded.

nitida. Shrubby, erect: *leaves* quite glabrous, hearted, with the lobes unequal, obscurely toothed: largest wing of the capsule roundish.

Jamaica. *L'Herit. Strip. nov. 1. p.* 95. *t.* 46.

- isoptera.* Caulescent: leaves glabrous, half hearted, obscurely toothed: wings of the capsule nearly equal, parallel.
Java. *Smith. ic. ined.* 2. t. 43.
- reniformis.* Caulescent: leaves kidney-form, angular, toothed: largest angle of the capsule acutangled; the rest parallel and very small.
Brasil. *Linn. Trans.* 1. p. 261. t. 14. f. 1. 2.
- erminæa.* Caulescent: leaves hearted, pointed, serrate: largest wing of the capsule falcate; the rest obliterated.
Madagascar. *L'Herit. strip. nov.* 1. p. 97. t. 47.
- crenata.* Caulescent: leaves hearted, with the lobes unequal, roundish, obtuse, crenate-toothed: capsules 2-celled.
East Indies. *Dryand. Linn. Trans.* 1. t. 14. f. 3.
- tenuifolia.* Caulescent: leaves hearted, with the lobes unequal, ovate, acute, angular, obscurely toothed: capsules 2-celled.
East Indies. *Dryand. Linn. Trans.* 1. t. 14. f. 4.
- ferruginea.* Caulescent: leaves hearted, with the lobes unequal, toothed: petals of the male flowerer oblong, nearly equal.
New Granada. *Smith. ic. ined. fasc.* 2, t. 44.
- grandis.* Caulescent: leaves hearted, with the lobes unequal, angular, serrate: wings of the capsules a little unequal.
Japan. *Kämpf. ic. select.* t. 20.
- macrophylla.* Caulescent: leaves hearted, with the lobes unequal, crenate-toothed; the lower-ones angular, one of them very large.
West Indies. *Plum. ic.* 34 t. 45 f. 1.
- acutifolia.* Caulescent: leaves half hearted, angular, toothed: largest wing of the capsule obtus-angled, the rest acute.
Jamaica. *Sloan. Jam. t.* 127. f. 1. 2.
- humilis.* Caulescent, erect. leaves bristly, half hearted, doubly serrate: wings of the capsules rounded, rather unequal.
Trinidad. *Dryand. Linn. Trans.* 1. p. 166. t. 15.
- acuminata.* Caulescent: leaves bristly, half hearted, pointed, unequally toothed: largest wing of the capsules obtus-angled, the rest acute.
Jamaica. *Dryand. Linn. Trans.* 1. t. 14. f. 5. 6.

- hirsuta.* Cauliscent: leaves bristly, half hearted, doubly serrate: largest wing of the capsule obtusangled; the rest parallel and very small.
Guiana. *Aubl. Guian.* 913. t. 348.
- Urtica.* Cauliscent, rooting: leaves bristly both sides, unequally ovate, doubly serrate: capsules 3-horned at the base.
America. *Smith icon. ined. fasc. 2. t. 45.*
- scandens.* Climbing, rooting: leaves ovate-roundish, obscurely toothed: largest wing of the capsules obtusangled, the rest parallel and very small.
Guiana, Jamaica. *Aubl. Guian.* 916. t. 349.
- tuberosa.* Creeping: leaves hearted, with the lobes unequal, angular toothed: wings of the capsules parallel.
East Indies. *Rumph. Amb.* 5. t. 169. f. 2. *Empetrum.*
- rotundifolia.* Creeping: leaves roundish kidney-form, crenate.
West Indies. *Plum. ic.* 33. tab. 45.
- nana.* Stemless: leaves lanceolate: scape 2 or 3-flowered.
Madagascar. *L'Herit. strip. nov.* 1. p. 99. t. 48.
- tenera.* Stemless: leaves hearted, with the lobes unequal: flowers umbelled.
Ceylon. *Dryand. Linn. Trans.* 1. p. 169. t. 16.
- diptera.* Stemless: leaves hearted, with the lobes unequal: peduncles forked: one of the wings of the capsule very large; another narrowed, a third obsolete.
Johanna Island. *Dryand. Linn. Trans.* 1. p. 170.
- octopetala.* Stemless: leaves hearted, 5-lobed: peduncles forked.
Lima. *Dryand. Linn. Trans.* 1. p. 171. n. 21.
- malabarica.* Stems herbaceous: peduncles axillary, short, about 3-flowered: fruit berried.
East Indies. *Rheed. Mal.* 9. p. 117. t. 86.
- repens.* Stems creeping, rooting at the joints: leaves half hearted: peduncles axillary, long, many-flowered.
America. *Plum. ic.* 34. tab. 45. f. 2.

1699. MYRIOPHYLLUM. Calyx 4-leaved: petals 4.

Male. *Samina* 8, longer than the calyx.

Fern. *Stigmata* 4, sessile: seeds 4, covered with a bark.

Water Millfoil.

**spicatum*. Flowers interruptedly spiked, leafless.
Ditches. *Eng. Bot.* t. 83. *Flor. Dan.* t. 681.

**verticillatum*. All the flowers in axillary leafy whorls.
Ditches. *Eng. Bot.* t. 218. *Flor. Dan.* t. 1046.

1700. CERATOPHYLLUM. *Calyx* many-parted:
corol 0.

Male. *Stamina* 16—20: *antheræ* oblong.

Fem. *Stigma* 1, nearly sessile: *seed* 1, covered with
bark. *Horn-wort.*

**demersum*. Fruit 3-spined: segments of the calyx toothed.
Ponds. *Eng. Bot.* t. 947. *Gærtn. fruct.* 1. t. 44. *fig. ult.*

**submersum*. Fruit unarmed; segments of the calyx entire.
Ditches. *Eng. Bot.* t. 679. *Flor. Dan.* t. 510.

1701. POTERIUM. *Calyx* 4-leaved; *corol* 4-parted.

Male. *Filaments* 30—50, very long, flaccid.

Fem. *Pistil* 1 or 2: *nut* 2-celled, coated with the
hardened tube of the corol. *Burnet.*

**Sanguisorba*. Unarmed: stems somewhat angular.
q. Dry mountains, *Eng. Bot.* t. 860. *Curt. Lond.* 2. t. 64.

**ancistroides*. Somewhat shrubby: leaflets quite glabrous, roundish,
deeply toothed: flowering-stem angular, procumbent.
Barbary. *Desfont Atl.* 346. t. 251.

**hybridum*. Unarmed: stems cylindrical, stiff.
South of Europe. *Hort. Rom.* 2. *tab.* 72.

**caudatum*. Unarmed, shrubby: branches round, villous: spikes elongated, lax.
Canaries. *Aiton Hort. Kew.* 3. p. 354.

**spinosum*. Armed with branched spines.
Levant. *Hort. Rom.* 2. t. 73. *Moris. sect.* 8 t. 18. f. 5.

1702. ACIDOTON. Male. *Calyx* 5-leaved: *corol*
0: *stamina* numerous, fixed to a globular receptacle.

Fem. *Calyx* 6-leaved: *corol* 0: *style* 3-cleft: *capsule*
3-grained.

**urens*. Acidoton.

Jamaica. *Sloan. Jam.* 1. 124. n. 2. t. 83. f. 1.

Sbrub 8 or 8 feet high: *leaves* narrow lanceolate, with often a
tooth near the top: *petioles* short, ribbed.

1703. SAGITTARIA. *Calyx* 3-leaved: *petals* 3.

Male. *Filaments* about 24, collected in a head.

Fem. *Pistils* numerous: *capsules* numerous, swelling,
1-seeded. *Arrow-head.*

**sagittifolia* Leaves arrow-shaped, acute.

Waters, *Engl. Bot. t. 84. Flor. Dan. t. 172.*

obtusifolia. Leaves arrow-shaped, obtuse; stem branched.

Afia. *Pluk. phyt. t. 200. f. 7. Rheed. Mal. 11. t. 45.*

lanceifolia. Leaves lance-ovate.

Jamaica. *Jacq. Amer. t. 248. pict. t. 121.*

acutifolia. Leaves subulate.

Surinam, *Linn. suppl. 419. Leaves sheathing.*

trifolia. Leaves ternate.

China. *Per. Gaz. 29. t. 19 f. 5.*

1704. ARUM. *Spathe* 1-leaved, convolute at the
base: *spadix* cylindrical, androgynous, naked
above, bearing the stamina in the middle, and the
germs at the base: *berries* 1-celled.

A. *Without stems: leaves compound.*

crinitum. Leaves pedate, with the lateral-lobes involute: spathe hairy
internally: *spadix* ramentaceous above.

Minorca. *Aiton. Hort. Kew. 3. p. 314.*

Dracontium Leaves pedate: leaflets lanceolate, very entire, longer than
the spathe, shorter than the *spadix*. *Dragon.*

North America. *Pluk. phyt. t. 371. f. 2.*

Dracunculus. Leaves pedate; leaflets lanceolate: very entire, lamina ovate
longer than the *spadix*.

South of Europe. *Sabb. Hort. Rom. 2. t. 76. 77.*

venosum Leaves pedate; leaflets nearly oval, very entire, lamina
lanceolate; longer than the *spadix*.

— *Aiton. Hort. Kew. 3. p. 315.*

pentaphyllum. Leaves quinate.

East Indies. *Zannon. hist 205.*

triphyllum. Leaves ternate: lamina lanceolate, pointed, as long as the
spadix.

America, China. *Dodart. mem. 81. f. 237.*

atrorubens. Leaves ternate: lamina ovate, half as long as the spadix.
Virginia. *Pluk. alm. t. 77. f. 5.*

ternatum. Leaves ternate; receptacle longer than the spathe.
Japan. *Pluk. alm. t. 376. f. 3.*

B. *Without stem: leaves simple.*

Colocasia. Leaves peltate, ovate, repand, semibifid at the base.
Egypt, Syria, America. *Catesby. Carol. 2. t. 45.*

bicolorum. Leaves peltate, arrow-shaped, coloured on the disk: spathe contracted in the middle, somewhat globular at the base: lamina roundish, pointed, erect, slightly convolute.

Madeira. *Aiton, Hort. Kew. 3. p. 316.*

esculentum. Leaves peltate, ovate, very entire, emarginate at the base.
America. *Sloant Jam. 1. 167. tab. 106. f. 1.*

macrorrhizon. Leaves peltate, hearted, repand, 2 parted at the base.
East Indies, China. *Herm. parad. tab. 73.*

peregrinum. Leaves hearted, obtuse, mucronate, with rounded angles.
West Indies. *Sp. pl. 1369.*

divaricatum. Leaves heart-halbert shaped, divaricate.
East Indies. *Rheed. Mal. 11. 39. tab. 20.*

trilobatum. Leaves arrow-shaped 3-lobed: flower sessile.
Ceylon. *Curt. Magaz. t. 339. Mill. fig. t. 52. f. 2.*

sagittæfolium. Leaves arrow-shaped, triangular; the angles divaricate, acute.
West Indies. *Jacq. hort. 2. p. 73. t. 157.*

maculatum. Leaves halbert-shaped, very entire: spadix clavate, obtuse.
Cuckow-pint. Wake Robin.
Hedges, Eng. *Bot. t. 1298. Curt. Lond. fasc. 2. t. 63. Woodv. t. 25.*

virginicum. Leaves heart-halbert-shaped, acute, with obtuse angles.
Virginia. The spadix with the berries are boiled and eaten.

probofideum. Leaves halbert-shaped: spathe declined, filiform-subulate.
Apennines. *Sabb. Hort. Rom. 2. t. 78.*

Arisarum. Leaves heart-oblong: aperture of the spathe ovate.
South of Europe. *Sabb. Hort. Rom. 2. t. 79.*

pictum. Leaves heart-shaped, painted with coloured veins.
— *Linn. suppl. 415.*

- ovatum*. Leaves ovate-oblong : spathe rough.
India. *Rheed. Mal.* 11. t. 23. *Rumph. Amb.* 5. t. 108.
- tenuifolium*. Leaves lanceolate : spadix setaceous, declined.
South of Europe. *Moris.* 545. t. 6. f. 21.

cannaefolium. Leaves lanceolate, without veins.
Surinam : parasitical on trees. *Linn. suppl.* 410.

spirale. Leaves lanceolate : spathe spiral, sessile.
East Indies. *Reiz. obs.* 1. p. 30 n. 104.

C. *Caulescent.*

arborescens. Erect : leaves arrow-shaped.
America. *Plum. Amer.* t. 51. g. t. 60.

seguinum. Nearly erect : leaves lance-ovate.
America. *Mill fig.* t. 295. *Jacq. Amer.* t. 151.

hederaceum. Rooting : leaves hearted, oblong, pointed : petioles round.
America. *Jacq. Amer.* t. 152. *piet.* t. 230.

lingulatum. Creeping : leaves heart-lanceolate : petioles edged with membranes.
Jamaica. *Sloan. Jam.* 1. 75. *tab.* 27. f. 2. 3.

arvritum. Rooting : leaves ternate : those on the side 1-lobed.
America. *Plum. Amer.* 41. *tab.* 58.

indicum. Nearly erect : leaves ovate, cloven at the base, rounded :
spadix axillary.
India, China. *Rumph. Amb.* 5. t. 106.

cucullatum. Erect : leaves peltate, hearted, with the ears hooded.
Cochinchina. *Lour. Cochinch.* 536.

1705. THELYGONUM. *Calyx* cloven : *corol* 0.
Male. *Filaments* 12 or more.

Fem. *Pistil* 1 : *capsule* coriaceous, 1-celled : 1-seeded

cynocrambe. Thelygonum. *Dog's-cabbage.*

East Indies, Tartary. *Col. phyt.* 2. 28. *tab.* 30.

Stems trailing, flexuous : *leaves* ovate, rather outuse, rough on the edge : *male-flowers* 2 together, axillary, on short peduncles ; *females* solitary, sessile.

1706. MABEA. *Calyx* 1-leaved, 5-toothed : *corol* 0.
Male. *Filaments* 9-12, inserted in the bottom of the calyx.

Fem. Germ 1 : style 1 : stigmata 3, revolute : capsule
3-celled, 3-seeded, covered with a thick bark.

Pipe-wood.

Piriri. Leaves ovate-oblong, pointed,
Guiana. *Aubl. Guian. p. 867. tab. 334.*

Taquari. Leaves ovate, obtuse, with red veins underneath.
Guiana. *Mart. Mill. Dict. n. 2.*

1707. FAGUS. Male. Calyx campanulate, 5-cleft :
corol 0 : stamina 5-12.

Fem. Calyx 4-cleft : corol 0 : styles 2 or 3, 3-cleft :
seeds 2 or 3, covered with the coriaceous prickly
calyx.

* *castanea.* Leaves lanceolate, with pointed serratures, naked under-
neath : prickles of the fruit compound and entangled
together. *Chestnut-tree.*
Woods. *Eng. Bot. t. 886. Black. t. 330.*

pumila. Leaves lance-ovate, acutely serrate, downy underneath :
aments filiform, knotty. *Chinquapine.*
North America. *Catesby. Carolin. 1. tab. 9.*

* *sylvatica.* Leaves ovate, obscurely serrate : spines of the fruit simple.
Beech-tree.
Woods. *Hunter Evelyn. sylv. p. 136. tab.*

ferruginea. Leaves ovate-oblong, remotely and acutely serrate, pointed,
downy underneath.
North America. *Aiton. Hort. kew. 3. p. 362.*

*cochinchi-
nensis.* Leaves ovate, crowded ; fruit 3-celled, 3-valved.
Cochinchina. *Lour. Cochinch. 571.*

1708. QUERCUS. Male. Calyx campanulate, lobed :
corol 0 : stamina 5-10.

Fem. Calyx campanulate, very entire, rough : corol 0 :
style : stigmata 3 : nut superior, coriaceous, 1-
seeded. *Oak.*

Phellos. Leaves deciduous, lanceolate, very entire.
2. Leaves silky underneath.
North America. *Catesby. carolin. 1. tab. 22.*

molucca. Leaves lance-ovate, glabrous, quite entire.
Moluccas. *Rumph. Amb. 3. p. 85. tab. 56.*

1576 MONŒCIA. HEXAND. 1708. *Quercus*.

- glabra*. Leaves lance oblong, pointed; glabrous.
Japan. *Thunb Jap.* 175.
- acuta*. Leaves oblong cuspidate, entire; younger-ones downy.
Japan. *Thunb Jap.* 175.
- glauca*. Leaves obovate, pointed, serrate at top, glaucous underneath.
Japan. *Kämpf ic. select. tab.* 17.
- cuspidata*. Leaves ovate, cuspidate, serrate, glabrous.
Japan. *Thunb Jap.* 176.
- serrata*. Leaves oblong, with parallel nerves.
Japan. *Thunb Jap.* 176.
- dentata*. Leaves ovate-oblong, obtuse, cut-toothed, downy underneath.
Japan. *Thunb Jap.* 176.
- Ilex*. Leaves evergreen, lanceolate or oblong, downy underneath: calyx ciliate: antheræ ovate: bark even.
1. Leaves lanceolate, very entire.
2. Leaves lanceolate, serrate.
3. Leaves oblong, with pungent teeth.
South of Europe. *Blackw. t.* 180. *Dubam. 1. t.* 123. 124.
- gramuntia*. Leaves roundish-ovate, hearted, sinuate-toothed, pungent, undulate, downy underneath: antheræ roundish.
South of France. *Sp. pl.* 1423.
- ballota*. Leaves evergreen, elliptic, denticulate or entire, downy underneath: acorns very long.
Barbary. *Desfont. Atl.* 350.
- cornea*. Leaves oblong-ovate, repand, serrate, glabrous.
China. *Lour. Cochinch.* 572.
- concentrica*. Leaves lance-ovate, very entire, incurved: calyx lax, very short, excavated with concentric circles.
China. *Lour. Cochinch.* 572.
- Saber*. Leaves evergreen, ovate-oblong, downy underneath, undulate: bark cloven, fungous. *Cork-tree.*
South of Europe. *Blackw. t.* 193. *Dubam. 2. t.* 80.
- excoisera*. Leaves ovate, hearted, tooth-spinous, glabrous both sides, undulate.
South of Europe. *Rus. Alep. t.* 15. *f. 2. Dubam. 2. t.* 125.
From this is collected the *hermes* or scarlet grain.

- Prinus*. Leaves deciduous, ovate-elliptic, pubescent underneath, deeply toothed; teeth very wide, obtuse, nearly equal,
1. Leaves ovate, 2. Leaves oblong.
North America. *Catesby. Carol. 1. t. 18.*
- viridis*. Leaves evergreen, coriaceous, lance-oblong, downy underneath, undivided and sinuate.
North America. *Catesby. Carol. 1. t. 17.*
- aquatica*. Leaves annual, somewhat wedge-form, tapering to the base: lobed, glabrous.
North America. *Catesby Carol. 1. t. 20.*
- nigra*. Leaves annual, wedge-form, somewhat hearted, obscurely lobed; the lobes dilated.
North America. *Catesby Carol. 1. t. 12.*
- rubra*. Leaves annual, glabrous both sides, obtusely sinuate; the sinuses divaricate; segments acute, with setaceous points.
North America. *Catesby Car. 1. t. 23. Pluk. phyt. t. 54. f. 5.*
- bicolor*. Leaves annual; pubescent underneath, sinuate; the sinuses spreading; segments with setaceous points.
America. *Catesby Carol. 1. t. 21. f. 1. Pluk. phyt. t. 54. f. 5.*
- alba*. Leaves annual, pinnatifid; the sinuses narrowed; segments oblong-linear, without points.
Virginia. *Catesby Carol. 1. t. 21. f. 2.*
- Esculus*. Leaves pinnatifid, pubescent underneath, with lanceolate acute segments: raments axillary, filiform: acorn oblong: calyx prickly.
South of Europe. *Park. theatr. 1387. 3.*
- Robur*. Leaves deciduous, oblong, broader towards the top, with rather acute sinuses, and obtuse angles: peduncles of the fruit elongated.
Woods. *Eng. Bot. t. 1342. Wood. t. 126. Mart. rust. t. 10.*
- sessiflora*. Leaves petioled, deciduous, oblong, with rather acute opposite sinuses: fruit sessile.
Woods. *Mart. flor. rust. tab. 11. 12.*
- Aglyps*. Leaves ovate-oblong, downy underneath, sinuate-repand, with acute segments: calyx very large, clothed with scales spreading every way.
Levant. *Mill. flg. t. 214.*

Cerri. Leaves sinuate-pinnatifid, pubescent underneath; with rather acute segments: ramements axillary, filiform: calyx rough with prickles.

South of Europe. *Du Roy herbac.* 2. 259. *tab.* 5. *f.* 1.

1709. JUGLANS. Male. *Calyx* 1-leaved, scale-form: *corol* 6-parted: *filaments* 12-24.

Fem. *Calyx* 4-cleft, superior: *corol* 4-parted: *styles* 2: *drupe* with a grooved nut. *Walnut-tree.*

regia. Leaflets about 9, oval or oblong, glabrous, slightly ferrate, nearly equal; the odd-one petioled.

Persia. *Blackw.* 1. 247. *Woodv. Bot.* 1. 127.

alba. Leaflets 7, lanceolate, ferrate; odd one sessile. *Hickory.*
North America. *Catesby carolin.* 1. *tab.* 38.

nigra. Leaflets 15, lanceolate, ferrate; outer-ones less: male aments sessile, simple; females peduncled.

America. *Catesby carol.* 1. 1. 67. *Wang.* 1. 8. *f.* 20.

oblonga. Leaflets 6 or 8 pair, ovate-lanceolate, ferrate, and with the petioles pubescent: nuts deeply sinuate-grooved.

America. *Retz. obs.* 1. 31. Leaves pubescent beneath.

cinerea. Leaflets 11, lanceolate; unequal at the base.

America. *Jacq. ic.* 1. 1. 192. *Wangen.* 1. 9. *f.* 21.

compressa. Leaflets 3 pair, lanceolate, ferrate, glabrous, nearly equal at the base: fruit flattened.

North America. *Gartn. fruct.* 2. 51.

angustifolia Leaflets 13, linear-lanceolate, sessile, equal at the base: nuts elliptic.

North America. *Aiton. Hort. Kew.* 3. p. 361.

baccata. Leaflets in threes: fruit pendulous.

Jamaica. *Sloan. Jam.* 2. *tab.* 157. *f.* 1.

1710. CORYLUS. Male. *Ament* with 3-cleft scales: *corol* 0: *stamina* 8.

Fem. *Calyx* bifid, variously cut: *corol* 0: *styles* 2: *nut* ovate, smooth, 1-celled, covered with the coriaceous swelling calyx. *Nut tree.*

Avellana Stipules ovate, obtuse: leaves roundish, hearted, pointed: branchlets hairy.

Woods. *Eng. Bot.* 1. 723. *Blackw. tab.* 293.

2. *Calyx* longer than the ripe nut.

Filbert.

refratta. Stipules lanceolate : leaves oblong, hearted, acute : branch-
lets glabrous : calyx of the fruit beaked.
North America. *Aiton Hort. kew.* 3. p. 364.

Columna. Stipules linear, acute : nuts roundish. *Cob-nut*.
Constantinople. *Seba. mss.* 1. tab. 27.

1711. *CARPINUS*. Male. *Ament* with roundish
scales : *corol* 0 : *stamina* 8-20.

Fem. *Ament* with oblong scales : *corol* 0 : *germs* 2,
with two *styles* on each : *nut* angular. *Horn beam*,

* *Betulus*. Scales of the cones flat, oblong, toothed. *Wych-hasel*.
Woods. *Dubam. Arb.* 1. p. 127. tab. 49.

Olrya. Scales of the cones inflated.
Italy. *Mich. gen. t.* 104. f. 1. 2. Nut 2-celled.

virginiana. Leaves lanceolate, pointed : cones very long.
Virginia. *Pluk. phyt.* 1. 156. f. 1.

quinenfis. Scales of the cones somewhat hearted, doubly toothed : fe-
male *ament* ovate.
Carniola. *Scop. carn.* 2. 1190. tab. 60.

1712. *PLATANUS*. Male. *Calyx* a globular *ament* :
corol hardly visible : *antheræ* growing round the
filament.

Fem. *Calyx* a globular *ament* : *corol* many-petalled :
stigma recurved : *seed* roundish, mucronate, with
a capillary down at the base. *Plane-tree*,

orientalis. Leaves somewhat palmate, the nerves nearly glabrous un-
derneath.

Asia. *Pall. Ross.* 1. 2. p. 1. t. 51. *Dubam. arb.* 2. t. 33.

1. Leaves tapering to the base, flat.

2. Leaves tapering to the base, waved.

3. Leaves transverse.

occidentalis. Leaves lobe-angular ; the nerves do vny underneath.
West Indies. *Catesby car.* 1 t. 56. *Dubam. arb.* 1. 25.

1713. *SALISBURIA*. Male. *Ament* naked, fili-
form : *antheræ* numerous, incumbent, deltoid.

Fem. Solitary : *calyx* 4-cleft : *corol* 0 : *drupe* with a
triangular nut.

adiantifolia Salisburia.

China, Japan. *Smith. Linn. Trans.* 3. p. 330. Ginkgo: *Linn.*
Tree with large fan-shaped leaves cloven half way down, irregularly notched, thickened at the edge, glabrous.

1714. HEDYOSMUM. Male: *Ament* covered with antheræ: *perianth*, *corol*, *filaments* 0.

Fem. *Calyx* 3-toothed: *corol* 0: *style* 1, 3-sided: *berry* 3-sided, 1-seeded.

mutans.

Stems shrubby: branches lax: leaves lanceolate, pointed. Jamaica. *Swartz. prodr.* 84.

arborescens. Sem arborescent: branches stiff: leaves ovate-lanceolate, Jamaica. *Swartz. prodr.* 84.

1715. PARIANA. Male. *Flowers* in whorls, forming spikes: *calyx* 2-valved: *corol* 2-valved, larger than the calyx: *filaments* 40.

Fem. *Flowers* solitary in each whorl: *calyx* 2-valved: *corol* 2-valved, less than the calyx: *stigmata* 2: *seed* 3-sided, inclosed.

campestris.

Pariana.

Cayenne. *Plant* with jointed shoots: leaves alternate, oval, glossy: *spike* terminal, serrate.

1716. LIQUIDAMBAR. Male. *Calyx* common, 4-leaved: *corol* 0: *filaments* numerous.

Fem. *Calyx* in a globe, 4-leaved; *corol* 0: *styles* 2: *capsules* numerous, in a globe, 2-valved, many-seeded.

Styraciflua. Leaves palmate-lobed, with the sinuses of the base of the veins villous.

North America. *Blackw. t.* 485. *Catesby car.* 2. t. 65.

imberbe.

Leaves palmate-lobed, with the sinuses of the base of the veins glabrous.

The East. *Aiton, Hort. kew.* 3. p. 365.

1717. CARYOTA. *Calyx* common: *corol* 3-parted. Male. *Filaments* numerous.

Fem. *Pistil* 1: *berry* 1-celled, 1 or 2 seeded.

arens.

Fronds doubly pinnate: leaflets sessile: *berry* 2-seeded.

India. *Rheed. Mal.* 1. t. 11. *Rumph. Amb.* 1. t. 14.

mitis. Fronds doubly pinnate: petioles of the leaflets nodding; berries 1-seeded.

Cochinchina. *Lour cochinch.* 569.

1718. ARECA. *Spathe* 2-valved: *corol* 3-petalled.

Male. *Filaments* 9, the 3 outer-ones longer.

Fem. *Drupe* with an imbricate calyx.

Catechu. Fronds pinnate, leaflets revolute, opposite, end-bitten:
East Indies. *Blackw t.* 387 *Rumph. Amb.* 1. t. 4.

eryzæformis Fronds pinnate; leaflets glabrous, 3-nerved.
East Indies. *Rumph. Amb.* 1. p. 40. t. 5. f. 3.

oleracea. Leaflets quite entire: *Cabbage-trees.*
West Indies. *Sloan. Jam.* 2. tab. 215.
The green tops are cut and eaten as cabbage.

1719. AMBROSINIA. *Spathe* 1-leaved, separated by a membranaceous partition, containing the *stamina* in the hinder cell and upper part of the partition, *pistils* in the outer cell and lower part of the partition.

Bassi. Ambrosinia.
Sicily. *Bocc. Sic.* t. 26 *Moris. fest.* 13. t. 6. f. 19.
Root tuberous: leaves radical, ovate, shining.

ORDER IX. MONADELPHIA.

1720. PINUS. Male. *Calyx* a peltate scale of the ament: *corol* 0: *antheræ* growing to the scales, sessile.

Fem. *Calyx* a 2-flowered scale of the cone: *corol* 0: *nuts* 2 under each scale, winged.

A. Leaves numerous from the same sheathing base. Firs.

sylvestris. Leaves in pairs, rigid: younger cones peduncled, recurved, dependent: *antheræ* with a minute crest. *Scotch fir.*
Woods. *Lambert Pin.* t. 1. *Woodv.* t. 207. *Blackw.* t. 190.

pumilio. Leaves in pairs, abbreviated, stiff: cones ovate, obtuse, minute; the younger-ones sessile and erect.

South of Europe. *Lambert. Pin.* t. 2.

Tree hardly 7 feet high: crest of the *antheræ* large, 2-lobed: female-ament never curved: cones ovate, small.

- Banksiana.* Leaves in pairs, divaricate, oblique: cones recurved, twisted: crest of the antheræ dilated.
North America. *Lambert. Pin. tab. 3.*
Tree with numerous long branches: leaves falcate: antheræ sessile, with a kidney-form emarginate crenate crest: cones sessile, 2 or 3 together.
- Pinaster.* Leaves in pairs, elongated: cones in whorls, crowded, ovate, sessile, pendulous: crest of the antheræ rounded.
South of Europe. *Lamb. pin. tab. 4 5 Dubam. Arb. 2. t. 47.*
Leaves straight, channelled, pungent: male-ament pedicelled: antheræ with a rounded undivided toothed crest: cones ovate, straight.
- Pinea.* Leaves in pairs: cones ovate, very large: seeds with very short wings: antheræ with a jagged-toothed crest.
South of Europe. *Lamb. Pin. t. 6 7. 8 Blackw t. 189.*
Antheræ with a kidney-form slightly lobed crest: cones obtuse, tubercled, solitary or opposite: bractes entire: seeds large, long, obovate.
- maritima.* Leaves in pairs, very thin: cones ovate-conic, quite glabrous, solitary, peduncled.
South of Europe. *Lambert. Pin. t. 9. 10.*
Cones ovate, peduncled, drooping: seeds with a large hatchet-shaped wing.
- Halepensis* Leaves in pairs, very thin: cones ovate oblong, reflected, smooth, solitary, peduncled.
Europe, Asia. *Lamb. Pin. t. 11. Mill. fig. t. 208.*
Tree low: cones ovate-oblong, tubercled.
- Maffoniana* Leaves in pairs, very thin and long: with a short sheath: antheræ with a tooth-jagged crest.
China. *Lamb. Pin. t. 12.* Male-ament pedicelled.
- inops* Leaves in pairs: cones recurved, oblong-conic, as long as the leaves; the scales with subulate straight prickles.
North America. *Lamb. Pin. t. 13.*
Tree 40 feet high: leaves channelled, convex underneath: cones peduncled, pendulous, rather acute.
- resinosa.* Leaves in pairs: cones ovate-conic, sessile, 3 together; the scales dilatated in the middle and unarmed.
North America. *Lam. Pin. t. 14.* Cones obtuse, spreading.
- variabilis.* Leaves in pairs or threes: cones ovate-conic, mostly solitary: the scales with incurved prickles.
North America. *Lambert. Pin. t. 15.* Cones muricate.

resinosa. Leaves in threes, elongated, in a long sheath: cones deflected, with inflexed spines.

North America. *Lambert. Pin. tab. 16. 17.* Cones in pairs.

resinosa. Leaves in threes, in a short sheath: cones ovate, clustered; the scales with inflexed spines.

North America. *Lamb. Pin. tab. 18. 19.* Cones spreading.

resinosa. Leaves in threes, very long: cones nearly cylindrical, muricate: stipules pinnatifid, ramentaceous, permanent.

North America. *Lamb. pin. tab. 20.* Spines obsolete.

resinosa. Leaves in threes, very long, pendulous, in an elongated sheath: stipules very entire, deciduous: antheræ with a convex slightly crenate crest.

East Indies. *Lamb. Pin. t. 21.* Leaves becoming pendulous.

resinosa. Leaves in fives: cones cylindrical, smooth, longer than the leaves: antheræ with a double subulate minute crest.

Weymouth Pine.

North America. *Lamb. Pin. t. 22.* Cones pendulous.

resinosa. Leaves in fives: cones ovate: seed with obliterate wings: antheræ with a kidney-form crenate crest.

Alps. *Lamb. Pin. 23. 24.* Cones drooping.

resinosa. Leaves in fives, very long, rough on the margin: cones oblong, with the scales truncate at top.

Hispaniola. *Plum. pl. Amer. tab. 116.*

B. *Leaves solitary, surrounding the branches.* Pines.

Abies. Leaves solitary, square: cones cylindrical; the scales rhombic, flattened, repand and notched at top. *Spruce fir.*

Europe, Asia. *Lamb. Pin. t. 25.* Cones pendulous.

alba. Leaves solitary, square, incurved: cones nearly cylindrical, lax, with obovate very entire scales.

North America. *Lamb. Pin. t. 26. Hort. Angl. 2. t. 1.*

nigra. Leaves solitary, square, straight, stiff: cones ovate; the scales elliptic, undulate at the edge and jagged.

North America. *Lamb. Pin. t. 27.* Cones pendulous.

rubra. Leaves solitary, subulate, pointed: cones oblong, obtuse, the scales rounded, slightly 2-lobed, very entire on the edge.

North America. *Lamb. Pin. t. 28.* Cones reddish.

orientalis. Leaves solitary, square: cones ovate-cylindrical, with rhombic scales.

The East. *Lam. Pin. t. 29.* Scales entire.

- Picea*. Leaves solitary, flat, a little inclining to one side: cones cylindrical, erect: bractes elongated: crest of the antheræ 2-horned. *Silver Fir*.
Alps. *Lamb. Pin. t. 30. Woodv. t. 209.*
Branches horizontal: leaves flat, glaucous underneath: bractes twice as long as the scales: cones sessile; the scales very obtuse, with ciliate teeth at the sides.
- balsamea*. Leaves solitary, flat, a little inclining to one side: cones cylindrical, erect, with short bractes: crest of the antheræ not horned. *Balm of Gilead Fir*.
Virginia. *Lamb. Pin. t. 31. Pluk. Alm. t. 121. f. 1.*
- canadensis*. Leaves solitary, flat, denticulate, a little leaning 2 ways: cones ovate; terminal, hardly longer than the leaves.
Canada. *Lamb. Pin. t. 32. Cones acute, scales round.*
- taxifolia*. Leaves solitary, flat, very entire: cones oblong: antheræ inflated, double.
North America. *Lamb. Pin. t. 33. Crest reflected.*
- lanceolata*. Leaves solitary, lanceolate, flat, spreading: cones globular, with pointed scales.
China. *Lamb. Pin. t. 34. Pluk. Amaltb. t. 351. f. 1.*
Leaves with pungent points: cones sessile, nodding.
- Dammara*. Leaves solitary, opposite, elliptic, striate.
Amboina. *Lamb. Pin. t. 38. Rumph. Amb. 2. t. 57.*
Leaves decussate, on short petioles, coriaceous, obtuse, entire: cones ovate, with obtuse margined scales.
- C. *Leaves numerous, in tufts, from the same sheathing base.*
- Larix*. Leaves fascicled, deciduous: cones ovate-oblong: margins of the scales reflected, jagged: bractes guitar-shaped. *Larch*.
Alps. *Lamb. Pin. t. 35. Woodv. t. 210. Blackw. t. 477.*
Branches pendulous at the tips: cones ascending.
- pendula*. Leaves fascicled, deciduous: cones oblong; the scales reflected at the edges: bractes guitar-shaped, with a taper point.
North America. *Lamb. Pin. t. 36. Branches pendulous.*
- microcarpa*. Leaves fascicled, deciduous: cones roundish, few-flowered, with inflexed scales: bractes elliptic, with an obtuse point.
North America. *Lamb. Pin. t. 37. Cones reddish.*
- Cedrus*. Leaves fascicled, perennial: cones ovate, obtuse, erect, with appressed rounded scales. *Cedar of Lebanon*.
Syria. *Dubam. Arb. 1. t. 132. Trew. Ebr. t. 1. 4. 28. 60. 61.*

1721. THUJA. *Calyx* a scale of the ament: *corol* 0: *stamina* 4.

Fem. *Calyx* a 2-flowered scale of the cone: *corol* 0: *pistil* 1: *nut* 1 in each scale, winged. *Arbor vitæ*.

occidentalis. Cones smooth, with obtuse scales: branches spreading.
Siberia, Canada. *Blackw. Herb. tab.* 210.

orientalis. Cones spreading every way with sharp scales: branches erect.
China, Japan. Cones grey, with reflected scales.

articulata. Cones 4-sided, 4-valved: fronds compressed; jointed, leafless.
Barbary. *Vahl. symb.* 2. p. 96. t. 48.

dolabrata. Cones spreading every way: leaves imbricate 3 ways,
concave and silvery-white underneath.
Japan. *Thunb. Jap.* 266. Leaves in threes

1722. CUPRESSUS. Male. *Calyx* a scale of the
ament: *corol* 0: *antheræ* 4, sessile, without filaments.

Fem. *Calyx* a 1-flowered scale of the cone: *corol* 0:
styles concave dots: *nut* angular.

Cypress tree.

sempervirens. Leaves imbricate: fronds quadrangular.
The East. *Blackw. t.* 127. *Pall. Ross.* 2. t. 53:

disticha. Leaves in 2 rows: spreading.
America. *Catesby Carol.* 1. t. 11. *Comm. hort.* 1. t. 59.

thyoides. Leaves imbricate: fronds 2-edged. *White Cedar.*
Canada. *Pluk. mant.* t. 345. f. 1.

juniperoides. Leaves opposite, decussate, subulate, spreading.
The Cape. Leaves alternately opposite: cones black.

pendula. Leaves imbricate; glandular: fronds quadrangular, glau-
cous: branches pendent.
Goa. *L'Herit. strip. nov.* p. 15. t. 8.

japonica. Leaves in 4 rows, falcate, compressed; grooved, decurrent.
Japan. *Thunb. Jap.* 265. Leaves with 4 grooves.

columnaris. Leaves imbricate; subulate, grooved: cones cylindrical,
elongated.
New South Wales. *Forst. flor. aust.* n. 351.

1723. GNETUM. Male. *Calxy* a minute coloured
scale of the ament: *corol* 0: *filament* 1, with 2
anther.

Fem. *Calyx* a lacerated scale of the ament: *corol* 0: *style*
with a cloven stigma: *drupe* 1-seeded.

Gnemon.

Gnetum.

East Indies. *Rumph. Amb.* 1. p. 181. tab. 71.*Branches* jointed: *leaves* lance-ovate, very entire, glabrous: *aments* axillary, in pairs, peduncled: *bractæ* orbicular perfoliate.1724. HUURA. Male. *Ament* imbricate: *perianth* truncate: *corol* 0: *filament* cylindrical, peltate at top, surrounded with numerous antheræ in pairs.Fem. *Calyx* 0: *corol* 0: *style* funnel-form: *stigma* 12-cleft: *capsule* 12-celled: *seeds* solitary.

crepitans.

Huura

Sand-box tree.

West Indies. *Comm. Hort.* 2. t. 66 *Ehret. pict.* t. 12.*Tree* with branches abounding in milky juice: *leaves* heart-shaped, crenate, with a prominent midrib.1725. PLUKENETIA. *Calyx* 0: *corol* 4-petalled. Male. *Stamina* 8: nectaries, 4, bearded.Fem. *Style* very long: *stigma* peltate, 4-lobed: *capsule* 4-grained.

volabilis.

Plukenetia.

Indies *Plum. ic.* 226. *Rumph. Amb.* 1. t. 79. f. 2.*Stem* twining: *leaves* heart-shaped, serrate, acute: *racemes* of numerous male flowers and a few females at bottom.1726. GYMNANTHES. Male. *Ament* naked: *perianth* 0: *corol* 0: *stamina*, pedicels 3-parted or 3-forked, bearing the antheræ.Fem. *Ament* or *germ* pedicelled: *corol* 0: *style* 3-cleft: *capsule* 3-grained, 3-celled.

elliptica.

Dioecious: *stamina* 3-parted: females amentaceous.Jamaica. *Swartz. prodr.* 96.

incida.

Monœcious: *stamina* trichotomous: females solitary, pedicelled.Hispaniola. *Swartz. prodr.* 96.

1727. DALECHAMPIA. Outer common involucre with 3 leaflets; inner with 2 3-cleft leaves.

Male. *Umbellule* 10-flowered: *involucel* 2 leaved, with numerous chaffs: *proper perianth* 5-leaved: *corol* 0. *filaments* numerous.Fem. *Florets* 3: *involucel* 3-leaved: *proper perianth* of 11 leaflets: *corol* 0: *style* filiform: *capsule* 3-grained.

- corolata.* Leaves quite entire.
New Granada. *Leaves* 3-lobed.
- scandens.* Leaves 3-cleft, ferrate.
West Indies. *Jacq Amer. t. 160. Plum. Amer. t. 101.*
1728. ACALYPHA. Male. *Calyx* 3 or 4-leaved:
corol 0: *stamina* 8—16.
Fem. *Calyx* 3-leaved: *corol* 0: *styles* 3: *capsules* 3-
grained, 3-celled: *seeds* solitary.
- virginica.* Female involucre heart-shaped, cut: leaves ovate lanceo-
late, longer than the petiole.
Indies. *Pluk. phyt. t. 99. f. 4. Herm. Lugdb. t. 687.*
- virgata.* Female involucre heart-shaped, ferrate: male spikes distinct,
naked: leaves lance-ovate.
Jamaica. *Brown Jam. 346, t. 36. f. 2.*
- indica.* Female involucre heart-shaped, slightly notched: leaves
ovate, shorter than the petiole.
Vera Cruz. *Herm Lugdb. t. 687.*
- villosa.* Female involucre very small, toothed, very villous; spikes
elongated: leaves ovate, pointed, ferrate, longer than
the petiole.
Carthagera. *Jacq. hort. 3. p. 26. t. 47.*
- australis.* Female involucre quite entire: leaves lanceolate, obtuse.
South America. *Spec. pl. 1424.*
- bernandisolia.* Female spikes very long, with hearted ferrate involucre;
males distinct, naked: leaves somewhat hearted, ferrate,
on very long petioles.
West Indies. *Swartz. prodr. 99.*
- corensis.* Female flowers terminal, distinct, with 3-leaved involucre;
males spikes axillary, involucre: leaves ovate, ferrate.
West Indies. *Jacq. Amer. 254. t. 161.*
- lanceolata.* Female spikes with many-parted involucre; males lax,
naked: leaves wedge-ovate, pointed, ferrate, glabrous.
West Indies. *Swartz. prodr. 99.*
- elliptica.* Female involucre shorter than the germ, ovate, toothed, hairy;
males naked, lax: leaves elliptic, pointed, toothed.
West Indies. *Swartz. prodr. 99.*
- repens.* Spikes terminal, erect; flowers mixed; females lower;
involucre hearted, ferrate: males leafless: leaves ovate,
ferrate, stem creeping.
West Indies. *Sloan. Jam. 1. t. 82. f. 3. Urtica.*

tomentosa. Female spikes terminal, solitary; involucre many-parted; males erect: leaves lance-ovate, ferrate, rough, villous: downy underneath.

West Indies. *Swarthz. prodr.* 99.

angustifolia. Female flowers nearly sessile, terminal, involucre ferrate; males in spikes: leaves linear, ferrate.

West Indies. *Swarthz. prodr.* 99.

scabrifolia. Female involucre hearted, cut: leaves oblong lanceolate, ferrate, rough.

West Indies. *Swarthz. prodr.* 99.

betulaefolia. Female flowers axillary, sessile; involucre hearted, crenate, males in spikes: leaves roundish, crenate, glabrous.

West Indies. *Swarthz. prodr.* 99.

1729. ALEURITES. *Calyx* 3-cleft: *corol* 5-petalled: *nectaries* 5 scales.

Male. *Stamina* numerous, united on a columnar receptacle.

Fem. *Style* 0: *stigmata* 2, sessile: *berry* globular: *seeds* 2, coated with a double bark.

triloba. Aleurites.

New South Wales. *Forst. char. gen.* 1. 56.

1730. CROTON. Male. *Calyx* cylindrical, 5-toothed: *corol* 5-petalled: *stamina* 10—15.

Fem. *Calyx* many-leaved: *corol* 0: *styles* 3, cloven: *capsule* 3-celled: *seeds* solitary.

variegatum. Leaves lanceolate, very entire, glabrous, painted, petioled.

East Indies. *Rumph. amb.* 4. 1. 25—27. *Rheed.* 6. 1. 61.

lineare. Leaves linear, very entire, obtuse, downy underneath: stem shrubby.

Jamaica. *Woodw.* 1. 41. *Blackw.* 1. 577. *Sloan.* 1. 1. 86.

castaneifolia. Leaves lanceolate, obtuse, ferrate, pointed, glabrous.

um. South America. *Spec. pl.* 1424.

palustre. Leaves ovate lanceolate, plaited, ferrate, rough.

Vera Cruz. *Spec. pl.* 1424. Spikes axillary.

glabellum. Leaves ovate, rather obtuse, very entire, smooth: fruit peduncled.

Jamaica. *Sloan. Jam.* 2. 30. 174. f. 2.

sinctorium. Leaves rhombic, repand: capsules pendulous: stem herbaceous.

South of Europe. *Burm. Ind.* 1. 62. f. 1.

- glandulosum* Leaves oblong, ferrate, with 2 glands at the base: fruit sessile.
Jamaica. *Brown. Jam. p. 346. n. 1.*
- argenteum.* Leaves heart-ovate, downy underneath, undivided, ferrate.
South America. *Murr. comm. Gazet. 1781. t. 4.*
- sebiferum.* Leaves rhombic-ovate, pointed, very entire, glabrous.
Tallow tree.
China. *Pluk. amalib. t. 390. f. 2. Pet. gaz. t. 34. f. 3.*
A kind of tallow is made from the expressed oil.
- japonicum.* Leaves undivided and 3-lobed, ovate, pointed, very entire, glabrous.
Japan. *Thunb. Jap. 270. tab. 28. 29.*
- acutum.* Leaves ovate, pointed, ferrate, with 2 glands: stem herbaceous.
Japan. *Thunb. Jap. 269.*
- Tiglium.* Leaves ovate, pointed, ferrate, glabrous: stem herbaceous.
India. *Rumph. Amb. 4. t. 42. Rheed. Mal 2. t. 75.*
- lucidum.* Leaves ovate, glabrous: flowers in spikes: styles many-cleft: depressed-pubescent: frutescent.
Jamaica. *Bergm. Phil. Trans. 1768. t. 7.*
- lacciferum.* Leaves ovate, downy, ferrulate, petioled: calyx downy.
East Indies. *Burm. Zeyl. t. 91. Rumph. Amb. 3. t. 127.*
A very fine lac exudes from this tree.
- balsamiferum.* Leaves ovate-lanceolate, rough, very entire, downy underneath.
West Indies. *Jacq. Amer. t. 162. f. 3. hort. 3. t. 46.*
- aromaticum* Leaves heart-ovate, rough, ferrate. petioles with glands: racemes terminal.
Ceylon. *Rumph. Amb. 3. 197. t. 126.*
- humile.* Leaves heart-shaped, very entire, rough, slightly ciliate, downy underneath: stem shrubby.
Jamaica. *Branches hoary at the end.*
- Ricnocar-pus.* Leaves somewhat hearted, crenate: peduncles racemed, opposite the leaves: stem herbaceous.
Surinam. *Peduncles longer than the leaves.*
- moluccarum* Leaves hearted, angular, rough, downy beneath.
Ceylon, Moluccas. *Pluk. alm. t. 220. f. 5.*
- flavens.* Leaves hearted, oblong, very entire, downy both sides: branchlets very downy.
Jamaica. *Brown. Jam, 347. n. 3.*

- ca. enje.* Leaves halbert-shaped and undivided, lanceolate, very entire and quite glabrous.
The Cape. *Linn. suppl.* 422.
- lobatum.* Leaves with unarmed serratures; lower-ones 5-lobed, upper-ones 3-lobed.
Vera Cruz. *Stems* grooved, herbaceous, hairy.
- spinosum.* Leaves palmate, 5 or 3-lobed, with spinous serratures: flowers scattered over the stem, nearly sessile.
East Indies. *Pluk. alm.* 1. 108 f. 3.
- Astroites.* Leaves oval, somewhat hearted, very entire, with stellate down both sides: branchlets closely downy.
West Indies. *Aiton Hort. Kew.* 3 p. 375.
- punctatum.* Leaves ovate, acute, entire, downy and dotted underneath: stem shrubby.
Ceylon. *Jacq. ic. rar.* Capsules silky, hairy, scarlet.
- nutan.* Leaves rhomb-ovate, pointed, waved, glabrous, with marginal glands.
New South Wales. *Forst. flor. Aust. n.* 354.
- Inophyllum.* Leaves obovate, very entire: stem arboreous.
New South Wales. *Forst. flor. Aust. n.* 355.
- hirtum.* Leaves ovate, serrate, with glanduliferous hairs at the base: spikes sessile: stem bristly.
Guinea. *L'Herit stirp.* 100. f. sc. 17.
- althæaefolium.* Leaves heart-oblong, downy. stem shrubby, branched: flowers in terminal spikes.
Jamaica. *Mart. Mill. Dict. n.* 29.
- salviaefolium.* Leaves hearted, acute, downy beneath; stem shrubby: spikes axillary and terminal.
— *Mart. Mill. Dict. n.* 30.
- sessiliflorum.* Leaves ovate, pointed, very entire, glabrous: flowers sessile, axillary, diæcious, with 5 stamina.
Hispaniola. *Swartz. prodr.* 100.
- globosum.* Leaves ovate, obtuse, entire: peduncles in pairs: flowers diæcious: fruit globular, prickly.
Jamaica. *Swartz. prodr.* 100.
- divaricatum.* Leaves oblong, obtuse, serrate, hairy, with 2 glands at the base: racemes terminal, solitary: stem shrubby; branches forked, divaricate,
West Indies. *Swartz. prodr.* 100.

- nitens.* Leaves heart-elliptic, pointed, nearly entire, glabrous and shining above, dotted and silvery underneath: racemes axillary, shorter than the leaves, erect.
Jamaica. Swartz. *prodr.* 100.
- laurinum.* Leaves oblong, acute, very entire, thickish; petioles rough and with the leaves dotted underneath: racemes axillary, very long, spreading: stem arboreous.
Jamaica, Swartz. *prodr.* 100.
- pallens.* Leaves ovate, pointed, very entire, glabrous both sides: racemes solitary, erect, terminal: calyx longer than the fruit.
Jamaica. Swartz. *prodr.* 100.
- macrophyllum.* Leaves heart-roundish, pointed, entire, thick, downy, nerved underneath.
West Indies. Swartz. *prodr.* 100.
- populifolium* Leaves broad-ovate, pointed, serrate-toothed, hairy, with a gland at the base above: petioles as long as the leaves: racemes terminal, erect, solitary: stem shrubby.
West Indies. Swartz. *prodr.* 100. Vahl. *symb.* 2. 97.
- cochineb-nense.* Leaves lanceolate, very entire, hoary underneath, shining, dotted: capsules covered with scurf.
China. Lour. *cochinch.* 581. C. punctatum.
- lanatum.* Leaves ovate-lanceolate, very entire, glabrous, opposite: corols woolly: capsules 6-valved.
China. Lour. *cochinch.* 581.
- congestum.* Leaves ovate, cut-serrate, glabrous, veined: flowers clustered, axillary, naked.
Cochinchina. Lour. *cochinch.* 582.
- dioicum.* Leaves oblong, obtuse, hoary: flowers terminal; the males in spikes, the females 3 together.
Mexico. Cavan. *ic* 4. tab. 6.
- plicatum.* Leaves ovate, plaited, crenate, rough with hairs: stem herbaceous.
Arabia. Vahl. *symb.* 1. 78.
- obliquum.* Leaves ovate-lanceolate, very entire: stem herbaceous, downy.
Egypt. Vahl. *symb.* 1. 78. Plant downy.

coccineum. Leaves ovate, pointed, very entire, glabrous, with 2 glands at the base, and scarlet dots underneath: racemes terminal.

Ceylon. *Vabl. symb.* 2. 97. Flowers nearly sessile.

laevigatum. Leaves elliptic, quite glabrous and smooth, without glands, entire and serrate, obtuse: racemes terminal, elongated.

Haynam. *Vabl. symb.* 2. 97. Branches branny.

berulinum. Leaves ovate, obtuse, crenate-toothed, wrinkled, with dots on the upper surface, somewhat rough, hairy underneath: racemes axillary.

St. Thomas Island. *Vabl. symb.* 2. 98.

gossypifolium. Leaves hearted, 3-lobed, downy, with 2 glands at the base underneath: stem arboreous.

Trinidad. *Vabl. symb.* 2. 98. *tab.* 49.

procumbens. Leaves wedge-shaped, acute, very entire.

Carthageria. *Jacq. Amer.* Peduncles axillary, short.

niveum. Leaves hearted, pointed, serrulate, glossy-downy underneath: stem shrubby.

Carthageria. *Jacq. Amer. pict. tab.* 263. *f.* 59.

polygamum. Leaves lanceolate, serrate, thinly set with decumbent hairs: flowers polygamous.

Carthageria. *Jacq. Amer. pict. t.* 243.

1731. HERITIERA. Calyx 5-toothed: corol 0.

Male. *Antherae* 10, without filaments.

Fem. *Germes* 5: *drupes* dry, with 1 subglobular seed.

littoralis. Heritiera. Looking-glass plant.

East Indies. *Rheed. Mal.* 6. 37. *t.* 21. Nagam.

Tree with alternate, oval-oblong, obtuse, perennial, thick, veined, glabrous, entire, petioled leaves.

1732. JATROPHA. Male. Calyx 0: corol 1-petalled, funnel-form: *stamina* 10, alternately shorter.

Fem. Calyx 0: corol 5-petalled, spreading: *styles* 3; cloven: *capsules* 3-celled: seed 1. *Physic-nut.*

gossypifolia. Leaves 5-parted, with ovate, entire, ciliate-lobes: petioles with glandular branched bristles.

West Indies. *Sloan. Jam.* 1. *t.* 84. *Merian. Sur.* 1. 38.

- glauca.* Calyced: leaves 5 and 3-cleft, ferrate-toothed: petioles naked: stipules palmate.
Arabia, India. *Pluk. phyt. tab. 220. f. 4.*
- spinosa.* Calyced: leaves 3-parted; lobes angular upwards, very entire: stem shrubby, prickly.
Egypt. *Vabl. symb. 1. p. 79.*
- variegata.* Calyced, leaves lanceolate, very entire.
— *Vabl. symb. 1. 79. tab. 21.*
- glandulosa.* Calyced: leaves 5-lobed, villous; lobes denticulate, glandular: stem shrubby, without stipules.
— *Vabl. symb. 1. 80.* Petioles as long as the leaves.
- These 4 last, which have a 5-cleft calyx in the male, differ from Croton, in not having the fructification in spikes.
- moluccana.* Leaves ovate, very entire, slightly toothed.
Moluccas, Petioles as long as the leaves, glandular.
- divaricata.* Leaves ovate, pointed, entire, quite glabrous: racemes divaricate.
Jamaica. *Savart. prodr. 98.*
- Curcas.* Leaves heart-shaped, angular.
South America. *Jacq. hort. 3. 36. tab. 63.*
- multifida.* Leaves many-parted, smooth: stipules setaceous, many-cleft.
South America. *Breyn. cent. t. 53. Moris. 10. t. 3. f. ult.*
- Manibot.* Leaves palmate; lobes lanceolate, very entire, smooth.
South America. *Sloan. Jam. 1. t. 85. Mer. Sur. f. 4. 5.*
- Janipha.* Leaves palmate, with very entire lobes; the middle-ones both sides lobed with a sinus.
South America. *Jacq. Amer. t. 162. f. 1. hort. 3. t. 77.*
- urens.* Leaves palmate, toothed, prickly.
Brasil. *Jacq. hort. t. 21. Pluk. phyt. t. 220. f. 3.*
- herbacea.* Prickly: leaves 3-lobed: stem herbaceous.
Vera Cruz. *Houft. Relig. 6. tab. 15.*

1733. AGYNEIA. Calyx 6-leaved: corol o.

Male. *Anthera* 3, on the rudiment of a style.

Fem. *Germ* perforated at the top, without style or stigma.

impubes. Leaves glabrous both sides.

China. *Linn. mant. 296.*

pubera.

Leaves downy underneath.

China. *Shrubs* with alternate leaves in 2 rows, elliptic, very entire : *flowers* axillary, numerous, close.1734. SIPHONIA. *Calyx* 1-leaved : *corol* 0.Male. *Antheræ* 5, below the top of the column.Fem. *Style* 0. *stigmata* 3 : *capsules* 3-grained : *seeds* with a little shell.*elastica.*

Siphonia.

*Elastic gum-tree.*Guiana. *Aubl. Guian. t. 335. An. Par. 1751. t. 20.**Tree* lofty, naked up to the head : *fruit* triangular.The well-known substance called *Caoutchouc* or *gum elastic*, is the inspissated viscid juice, procured by making incisions in the bark.1735. OMPHALFA. Male. *Calyx* 4-leaved : *corol* 0 : *filament* columnar, with the *antheræ* inserted into it.Fem. *Calyx* 5-leaved : *corol* 0 : *stigma* 3-cleft : *capsule* fleshy, 3-celled : *nuts* solitary.*axillaris.**Racemes* axillary : leaves 2 rowed, ovate, pointed, shining, on short petioles : *stipules* mucronate : *stem* shrubby.Jamaica. *Swartz. prodr. 95.**caulina.**Racemes* on the stem, scaly at the base : leaves 2-rowed, oblong, acute, shining : *stem* arboresecent.Jamaica. *Swartz. prodr. 95.**cordata.**Racemes* compound, leafy, terminal : leaves scattered, heart-shaped, villous underneath, with 2 glands at the base : *stem* climbing.West Indies, *Aubl. Guian. 834. tab. 328.**nucifera.**Racemes* compound, leafy, terminal : leaves scattered, oblong, quite glabrous, with 2 glands at the base : *stem* arboreous.Jamaica. *Swartz. prodr. 95. O. triandra. Sp. pl.*1736. BRADLEIA. Male. *Calyx* 0 : *corol* 6-petalled, nearly equal : *filaments* 3, with 3 twin *antheræ*.Fem. *Calyx* 0 : *corol* 6-parted ; 3 of the parts interior : *germ* superior, with 6-8 *stigmata* : *capsule* 6-celled, 6-valved : *seeds* solitary.

- finica.* Bradleia.
China. *Shrub* with the fructification from the axils of the leaves; fruit orbicular, compressed, striate.
1737. RICINUS. Male. *Calyx* 5-parted: *corol* 0: *filaments* very numerous, filiform.
Fem. *Calyx* 5-parted: *corol* 0: *styles* 3, cloven: *capsule* 3-celled, 3-valved: *seed* solitary.
- inermis.* Leaves peltate, somewhat palmate, ferrate: petioles glandular: fruit unarmed.
West Indies. *Jacq. ic. rar, Misc. 2. 362.*
- communis.* Leaves peltate, somewhat palmate: fruit prickly.
Indies *Woodw. t. 61. Blackw. t. 148. Moris. 10 f. 3. f. 1.*
From the seeds is procured the drug called *Palma Christi*, or *Castor oil*. It is subject to many varieties.
- Tanarius.* Leaves peltate, repand.
East Indies. *Rumph. Amb. 5. 37. tab. 121. L.*
- Mappa.* Leaves peltate, undivided.
Moluccas. *Rumph. Amb. 3. 172. tab. 108.*
- Apelia.* Leaves petioled at the base, conical, very entire.
China. *Lour. cochinch. 585.* Leaves white beneath.
- dieica.* Digecious: leaves heart-shaped, pointed.
Tanna Island. *Forst. prodr. n 357.*
1738. STILLINGIA. Male. *Calyx* hemispherical, many-flowered: *corol* tubular, lacerated.
Fem. *Calyx* 1-flowered, inferior: *corol* superior: *style* 3-cleft: *capsule* 3-grained.
- Gluatica.* Stillingia.
Carolina. *Shrub* with erect milky stems: leaves elliptic, serrulate, shining: spike terminal sessile: flowers yellow.
1739. HIPPOMANE. Male, an ament: *perianth* cloven: *corol* 0.
Fem. *Perianth* 3-cleft: *corol* 0: *stigma* 3-parted: *drupe*, or *capsule* 3-grained.
- mancinella.* Leaves ovate, ferrate, with 2 glands at the base.
Manchineel-tree.
West Indies. *Catesby. car. 1. t. 95. Sloan. Jam. t. 159.*
The juice of this tree is highly poisonous.

biglandulosa Leaves ovate-oblong, with 2 glands at the base.
America. *Plum. ic.* 171 *f.* 2. *Pluk. phyt.* 1. 229 *f.* 8.

spinosa. Leaves somewhat ovate, with spinous teeth.
South America. *Plum. ic.* 171 *f.* 1. *Pluk. phyt.* 1. 196.

1740. NIPA. Male *Calyx* an oblong spathe : *corol*
6-petalled : *filament* 1, filiform.

Fem. *Calyx* a spathe : *corol* 0 : *style* 0 : *stigmata* 0 :
drupes numerous, clustered, angular.

fruticans. Nipa.

East Indies. *Rumph. Amb.* 1. 72 *tab.* 16.

Palm with pinnate leaves ; *leaflets* striate, pointed, margined,
glabrous. *male-flowers* in lateral spikes, *females* in terminal
fessile head.

ORDER X. GYNANDRIA.

1741. ANDRACHNE. Male. *Calyx* 5-leaved :
corol 5 petalled : *stamina* 5, on the rudiment of
a style.

Fem. *Calyx* 5-leaved : *corol* 0 : *styles* 3 : *capsule* 3-
celled : *seeds* in pairs.

Telephioides Procumbent, herbaceous.

Italy. *Mill. illust. tab.* Dill *Elth.* 282. *f.* 364.

fruticosa. Erect, shrubby.

East Indies. *Leaves* spear-shaped : *peduncles* pendulous.

arborea.

Stem arborescent : leaves ovate, obtuse, hoary underneath.
Campeachy. *Mart. Mill. Dict.* n. 3.

1742. HYPHYDRA. Male. *Calyx* 1-leaved, 3-
parted : *corol* 0 : *stamina* 6, inserted above the
germ.

Fem. *Calyx* 0. *corol* 0 : *style* triangular, with 3 stig-
mata : *capsule* 1-celled, 3-valved : *seed* single.

juvénatilis. Hyphidra.

Guiana. *Aubl. Guian.* t. 330. *Rottb. Sur.* 4. t. 1. *f.* 1.

Plant growing under water : leaves narrow lanceolate, glabrous
ciliate, clasping : flowers in heads.

CLASS XXII. DIOECIA.

Male and female flowers on distinct plants.

ORDER I. MONANDRIA.

1743. NAJAS. Male. *Calyx* cylindrical, cloven: *corol* 4-cleft: *filament* 0.
Fem. *Calyx* 0: *corol* 0: *pistil* 1: *capsule* ovate, 1-celled.
1744. PHYLLACHNE. *Calyx* double, each 2 or 3-leaved: *corol* funnel-form, 5-cleft.
Male. *Filament* 0: *antheræ* 2, placed on each side the stigma.
Fem. *Stigma* between the barren *antheræ*: *capsule* inferior, turbinate, many-seeded.
1745. PANDANUS. *Calyx* 0: *corol* 0.
Male. *Antheræ* sessile, inserted into the ramification of the spadix.
Fem. *Stigmata* 2. *fruit* compound.
1746. ASCARINA. *Ament* filiform: *corol* 0.
Male. *Antheræ* worm-shaped, 4-grooved.
Fem. *Style* 0: *stigmata* 3-lobed: *drupe*?
1747. BROSIMUM. *Ament* globular, every where clothed with orbicular peltate scales: *corol* 0.
Male. *Filament* solitary, between the scales.
Fem. *Style* cloven: *berry* 1-seeded.
† *Salix purpurea*, *Helix*.

ORDER II. DIANDRIA.

1748. VALLISNERIA. Male. *Spathe* 2-parted: *spadix* covered with florets: *corol* 3-parted.
Fem. *Spathe* cloven, 1-flowered: *calyx* 3-parted, superior: *corol* 3-petalled: *stigma* 3-parted: *capsule* 1-celled.
1749. CECROPIA. Male. *Spathe* caducous: *ament* imbricate with turbinate somewhat quadrangular scales: *corol* 0.
Fem. as in the male. *Germes* imbricate: *style* 1: *stigma* lacerated: *berry* 1-seeded.
1750. SALIX. *Calyx* a scale of the ament: *corol* 0.
Stamina 1—5, with a nectariferous gland at the base.
Fem. *Stigmata* 2: *capsule* superior, 1-celled, 2-valved: *seeds* downy.
† *Stilago diandra*.

ORDER III. TRIANDRIA.

1751. EMPETRUM. *Calyx* 3-parted: *corol* 3-petalled.
 Male. *Stamina* very long, 3—9.
 Fem. *Styles* 3—9: *berry* 3—9-seeded.
1754. MYRISTICA. *Calyx* 3-cleft: *corol* 0.
 Male. *Antheræ* growing round the upper part of the filament.
 Fem. *Capsule* drupaceous: *nut* covered with a variously lacerated membrane.
1753. OSYRIS. *Calyx* 3-cleft: *corol* 0.
 Male. *Filaments* 3, very short.
 Fem. *Stigma* 3 parted: roundish: *berry* globular, 1-celled, umbilicated.
1755. STILAGO. *Calyx* 1-leaved, cup-shaped: *corol* 0.
 Male. *Filaments* placed on the germ, spreading.
 Fem. *Stigmata* sessile: *drupe* with a 2-celled nut.
1756. CATURUS. Male. *Calyx* 0: *corol* 3-cleft.
 Fem. *Calyx* 3-parted: *corol* 0: *capsule* 3-grained, 3-celled: *seeds* solitary.
1752. RUSCUS. *Calyx* 6-leaved: *corol* 0.
 Male. *Nectary* ovate, tubular, bearing the *stamina* within.
 Fem. *Stamina* 0: *style* 1: *berry* superior, 3-celled: *seeds* in pairs.
1757. EXCOECARIA. *Ament* naked, covered with florets: *calyx* 0: *corol* 0: *styles* 3: *capsule* 3-grained.
1758. RESTIO. *Calyx* 3-leaved, 2 of the leaves boat-shaped: *corol* 3-leaved; leaves lanceolate, one of them broader.
 Fem. *Germ* 3-sided: *style* 1, seldom 2 or 3: *stigmata* 1—3, feathered.
1759. ELEGIA. *Spathes* deciduous. *corol* 0: *perianth* 6-leaved.
 Male. *Ament* lax, with pedicelled florets, and a setaceous bracte.
 Fem. *Ament* with a compound raceme: *styles* 3, filiform: *stigmata* simple.
1760. MABA. Male. *Calyx* 3-cleft: *corol* 3-cleft.
 Fem. *Calyx* 3-cleft: *corol* ——— *drupe* superior, 2-celled.
1761. PHOENIX. *Calyx* 3-parted: *corol* 3-petalled.
 Male. *Antheræ* linear, 4-sided.
 Fem. *Style* 1: *drupe* ovate, 1-celled.

ORDER IV. TETRANDRIA.

1763. HIPPOPHAE. Male. *Calyx* 2-parted: *corol* 0.
Fem. *Calyx* tubular, cloven: *style* 1; *berry* superior, 1-seeded.
1764. TROPIS. Male. *Calyx* 0: *corol* 4-petalled.
Fem. *Calyx* 0: *corol* 0: *style* 2-parted: *berry* 1-celled, 1-seeded.
1762. VISCUM. Male. *Calyx* 0: *corol* 4-petalled, dilated and united at the base, resembling a calyx: *antheræ* sessile, growing to the petals.
Fem. *Calyx* a slight border: *corol* 4-petalled dilated at the base: *style* 0: *berry* inferior, 1-seeded.
1767. BRUCEA. *Calyx* 4-leaved: *corol* 4-petalled.
Fem. *Pericarps* 4, 1-seeded.
1770. SCHÆFFREA. Male. *Calyx* 4 or 5-leaved: *corol* 4-petalled.
or 0
Fem. *Calyx* 4 or 5-parted: *corol* 4-parted or 0: *berry* 2-celled: *seeds* solitary.
1768. ANTHOSPERMUM *Calyx* 4-cleft: *corol* 0.
Fem. *Styles* 2. *germs* inferior, 4-sided.
1769. MONTINIA. *Calyx* 4-toothed, superior: *petals* 4.
Fem. *Filaments* barren: *style* cloven: *capsule* oblong, 2-celled.
1765. Batis. Male. *Ament* 4-fold imbricate: *calyx* 0: *corol* 0.
Fem. *Ament* ovate, with a 2-leaved involucre: *calyx* 0: *corol* 0: *stigma* 2-lobed, sessile: *berries* conjoined, 4-seeded.
1766. MYRICA. *Calyx* a concave scale of the ament: *corol* 0: *styles* 2: *berry* 1-seeded.

† *Rhamnus catharticus*. *Urtica*. *Morus nigra*.

ORDER V. PENTANDRIA.

1780. IRESINE. *Calyx* 2-leaved: *corol* 5-petalled.
Male. *Nectary* 5 scales.
Fem. *Stigmata* 2, sessile: *capsule* with downy seeds.
1783. CANNABIS. Male. *Calyx* 4-parted: *corol* 0.
Fem. *Calyx* 1-leaved, entire, gaping on one side: *corol* 0: *styles* 2: *nut* 2-valved, within the closed calyx.
1784. HUMULUS. Male. *Calyx* 5-leaved: *corol* 0.
Fem. *Calyx* an oblique entire scale of the ament: *corol* 0: *styles* 2: *seed* solitary, coated.

1771. *PISTACIA*. Male an ament : *calyx* 5-cleft: *corol* 0.
Fem. *Flowers* distinct: *calyx* 3-cleft: *corol* 0:
styles 3: *drupe* dry, 1-seeded.
1785. *ZANONIA*. *Calyx* 3-leaved: *corol* 5-parted: *styles* 3 : *berry*
inferior, 3-celled: *seeds* 2.
1781. *SPINACIA*. Male. *Calyx* 5-parted: *corol* 0.
Fem. *Calyx* 4-cleft: *corol* 0: *styles* 4: *seed* 1,
within the hardened *calyx*.
1782. *ACNIDA*. Male. *Calyx* 5-leaved: *corol* 0.
Fem. *Calyx* 2-leaved: *corol* 0: *styles* 5: *seed* 1,
covered with the succulent *calyx*.
1778. *ANTIDESMIA*. *Calyx* 5 leaved : *corol* 0.
Male. *Antheræ* half cloven.
Fem. *Stigmata* 5: *berry* cylindrical, 1-seeded.
1779. *VILLARIA*. *Calyx* 5-parted: *corol* 5-petalled.
Fem. *Style* 1: *berry* 3-celled: *seeds* solitary.
1774. *ASTRONIUM*. *Calyx* 5-leaved: *corol* 5-petalled.
Male. *Nectary* 5 glands in the disk of the
flower.
Fem. *Styles* 3: *seed* 1, lactescent.
1775. *MELICYTUS*. *Calyx* 5-toothed: *corol* 5-petalled: *nectary* 5
scales.
Male. *Antheræ* 5, fastened to the inside of
nectary.
Fem. *Stigma* flat, 4 or 5-lobed: *capsule*
berried, 1-celled: *seeds* imbedded in the
pulp.
1776. *CANARIUM*. *Calyx* 2 leaved: *corol* 3-petalled.
Fem. *Stigma* sessile, 3-sided: *drupe* with
a 3-sided nut.
1777. *RICHERIA*. *Calyx* 4 or 5-cleft: *corol* 4 or 5-petalled: *nectary*
4 or 5 glands at the base of the germ.
Male. *Stamina* between the glands of the
nectary.
Fem. *Style* 3-cleft: *capsule* covered with a
bark, 3-celled, 6-valved: *seeds* solitary,
pendulous.
1772. *XANTHOXYLUM*. *Calyx* 5-parted: *corol* 0.
Fem. *Pistils* 5, *capsules* 5, 1-celled: *seeds*
solitary.
1773. *PICRAMNIA*. *Calyx* 3 or 5-parted: *corol* 3 or 5-petalled.
Fem. *Styles* 2: *berry* 2-celled: *seeds* in pairs.
1786. *FEUILLEA*. *Calyx* 5-cleft: *corol* 5-cleft: *nectary* 5 con-
vergent filaments.
Fem. *Styles* 3: *pome* hard, 3-celled, covered
with a bark.

† *Phyllica diocia*. *Rhamnus Alaternus*, *Ribes alpinum*. *Pimpinella diocia*. *Bryonia diocia*
Salix pentandra.

ORDER VI. HEXANDRIA.

1787. FERREOLA. *Calyx* 3-cleft: *corol* 5-cleft.
 Male. *Filaments* inserted into a semiglobular receptacle.
 Fem. *Style* 1: *germ* oval: *berry* round, 2-seeded.
1789. SMILAX. *Calyx* 6-leaved: *corol* 0.
 Fem. *Styles* 3: *berry* 3-celled: *seeds* 2.
1788. TAMUS. *Calyx* 6-parted: *corol* 0.
 Fem. *Style* 3-cleft: *berry* inferior, 3-celled: *seeds* 2.
1790. DIOSCOREA. *Calyx* 6-parted: *corol* 0.
 Fem. *Styles* 3: *capsule* 3-celled, compressed; *seeds* 2; membranaceous.
1791. RAJANA. *Calyx* 6-parted: *corol* 0.
 Fem. *Styles* 3: *fruit* inferior, roundish, with an oblique wing.
1793. ELAEIS. Male. *Calyx* 6-leaved: *corol* 6-cleft.
 Fem. *Calyx* 6-leaved: *corol* 6-petalled: *Stigmata* 3: *drupe* fibrous: *nut* 1, valveless.
1794. BORASSUS. *Calyx* a spathe: *spadix* amentaceous, imbricate: *corol* 3-parted.
 Fem. *Styles* 3: *drupe* 1-celled, 3-seeded.
1792. MAURITIA. Male an oblong sessile ament: *calyx* 1-leaved, cup-shaped, entire: *corol* 1-petalled, with a short tube, and 3-parted border: *filaments* inserted in the throat of the tube.
 Fem. ———

† *Rumex acetosa*, *Acetofella*, *aculeata*. *Menispermum*.

ORDER VII. OCTANDRIA.

1795. POPULUS. *Calyx* a lacerated scale of the ament: *corol* turbinate, entire.
 Fem. *Pistils* 4: *capsules* 4, many-seeded.
1796. RHODIOLA. *Calyx* 4-parted: *petals* 4: *nectaries* 4, emarginate.
 Fem. *Stigmata* 4: *capsule* superior, 2-celled, 2-valved: *seeds* invested with down.
1797. MARGARITARIA. *Calyx* 4-toothed: *petals* 4.
 Fem. *Styles* 4 or 5: *berry* cartilaginous, 4 or 5 grained.

† *Laurus nobilis*. *Acer rubrum*. *Loranthus europaeus*. *Vallisneria spirandra*.

ORDER VIII. ENNEANDRIA.

1798. *MERCURIALIS*. Calyx 3-parted: corol 0.
 Male. *Stamina* 9-12: *antheræ* globular, twitt.
 Fem. *Styles* 2: *capsule* 2-grained, 2-celled :
seeds solitary.
1799. *HYDROCHARIS*. Calyx 3-cleft: corol 3-petalled.
 Male. Three inner *filaments* beaked.
 Fem. *Styles* 6: *capsule* inferior, 6-celled,
 many-seeded.
- † *Lausus*. *Empetrum nigrum*.

ORDER IX. DECANDRIA.

1801. *CORIARIA*. Calyx 5-leaved: *petals* 5.
 Male. *Antheræ* 2-parted.
 Fem. *Styles* 5: *seeds* 5, covered with the
 succulent-berried petals,
1800. *KIGGELARIA*. Calyx 5-parted: *petals* 5, with 5 3-lobed
 glands.
 Male. *Antheræ* perforated at the tips.
 Fem. *Styles* 5: *capsule* 1-celled, 5-valved,
 many-seeded.
1802. *SCHINUS*. Calyx 5-cleft: *petals* 5.
 Fem. *Stigmata* 3: *berry* 3-celled: *seeds* solitary.
- † *Silene Otites*. *Lychnis dioica*. *Güilandina dioica*. *Phytolaca dioica*. *Carica*.

ORDER X. DODECANDRIA.

1805. *MENISPERMUM*. Calyx 2-leaved: *petals* 4 exterior, 8, interior.
 Male. *Stamina* 16.
 Fem. *Stamina* 8, barren: *berries* 2, 1-seeded.
1803. *EUCLEA*. Calyx 4 or 5-toothed: corol 4 or 5-parted.
 Male. *Stamina* 12-15.
 Fem. *Styles* 2: *berry* 2-celled.
1804. *DATISCA*. Male. Calyx 5-leaved: corol 0: *antheræ* 15,
 long, sessile.
 Fem. Calyx 2-toothed: corol 0: *styles* 3: *cap-*
sule inferior, 3-sided, 3-horned, 1-celled,
 pervious, many-seeded.
1806. *STRATIOTES*. *Spathe* 2-leaved: *perianth* superior, 8-cleft :
petals 3.
 Fem. *Styles* 6: *berry* 6-celled.

ORDER XI. ICOSANDRIA.

1809. *FLACOURTIA*. Male. Calyx 5-parted: corol 0.
 Fem. Calyx many-leaved: corol 0: *germ* su-
 perior: *styles* 5-9: *berry* many-celled.

1807. **XYLOSMA.** *Calyx* 4 or 5-parted: *corol* 0.
 Male. *Stamina* surrounded with an annular nectary.
 Fem. *Style* minute: *stigma* obscurely 3-cleft: *berries* 2, dry, 1 or 2-celled; the cells 2-seeded.
1808. **HEDYCARYA.** *Calyx* 8 or 10-cleft: *corol* 0.
 Male. *Filament* 3: *antheræ* numerous.
 Fem. *Stigmata* sessile: *drupe* oval, 1-celled: *nut* covered with fibres, 1-celled.

† *Spiræa Aruncus.* *Rubus Chamaemorus.*

ORDER XII. POLYANDRIA.

1810. **PERULA.** *Calyx* 2-leaved: *corol* 1-petalled.
 Fem. *Capsule* pedicelled, drooping, 3-celled, 3-valved: *seeds* solitary.
 Male. *Germ*s 4, barren, on short pedicels.
1811. **CLIFFORTIA.** *Calyx* 3-leaved, superior: *corol* 0.
 Fem. *Styles* 2: *capsule* 2-celled: *seeds* solitary.
1812. **CYCAS.** Male. *Ament* cone-like, the scales covered every where underneath with pollen.
 Fem. *Spadix* sword-shaped: *germ* immersed in its angle, solitary: *style* 1: *drupe* with a woody nut.
1813. **LAMIA.** Male. *Ament* cone-like, the scales covered underneath with pollen.
 Fem. *Ament* cone-like, with scales at each margin: *berry* solitary.
- † *Clematis dioica.* *Thalictrum dioicum.* *Stratiotes aloides.* *Populus nigra.*

ORDER XIII. MONADELPHIA.

1814. **JUNIPERUS.** Male. *Calyx* the scales of an ament: *corol* 0: *stamina* 3.
 Fem. *Calyx* the scales of an ament, fewer, becoming fleshy, united into a 3-seeded berry.
1815. **ARAUCARIA.** Male. *Calyx* scales of an ament, terminated by a leaflet: *corol* 0: *antheræ* 10 or 12, without filaments.
 Fem. *Calyx* an ament with many germs: *corol* 0: *stigma* 2-valved, unequal: *seeds* numerous, in a roundish cone.
1816. **TAXUS.** Male. *Calyx* 0: *corol* 0: *stamina* numerous: *antheræ* peltate, 8-cleft.
 Fem. *Calyx* cup-shaped, very entire: *style* 0: *seed* 1, imbedded in the fleshy calyx.

1817. EPHEDRA. Male. Calyx of the ament 2-cleft: corol 0: stamina 7: antheræ 4 inferior, 3 superior.
Fem. Calyx 2-parted, 5-fold: corol 0: pistils 2: seeds 2, covered with the berried calyx.
1818. CISSAMPELOS. Male. Calyx 4-leaved: corol 0: nectary wheel-shaped: stamina 4.
Fem. Calyx 1-leaved, ligulate-roundish: corol 0: styles 3: berry 1-seeded.
1819. DRYANDRA. Calyx 2-leaved: corol 5-petalled: stamina 9: fruit 3 or 4-grained.
1820. NARPA. Calyx 5-cleft: corol 5-petalled.
Male. Stamina numerous, fertile: styles numerous, barren.
Fem. Stamina numerous, barren: styles numerous, longer than the stamina: capsule depressed, 10-celled: seeds solitary.
1821. NEPENTHES. Calyx 4-parted: corol 0.
Male. Filament 1: with many antheræ connected into a peltate head.
Fem. Style 0: stigma peltate, 4-lobed: capsule 4-celled: seeds numerous, coated.
1822. ADELIA. Male. Calyx 3-parted: corol 0: stamina numerous.
Fem. Calyx 5-parted: corol 0: styles 3, lacerated: capsule 3-grained.
† *Salix fissia*, *Croweana*.

ORDER XIV. GYNANDRIA.

1823. CLUYTIA. Calyx 5-leaved: corol 5-petalled.
Male. Stamina 5, on the middle of the style.
Fem. Styles 3: capsule 3-celled: seeds solitary.

ORDER I. MONANDRIA.

1743. NAJAS. Male. *Calyx* cylindrical, cloven:
corol 4-cleft: *filaments* 0.

Fem. *Calyx* 0: *corol* 0: *pistil* 1: *capsule* ovate, 1-celled.

Marina.

Najas.

Sea coast of Europe. *Mich. gen.* 11. *tab.* 8. *f.* 1. 2.

Stem with triangular spines: *leaves* narrow, with spinous teeth each side: *flowers* axillary, solitary.

1744. PHYLLACHNE. *Calyx* double, each 2 or 3-leaved: *corol* funnel-form, 5-cleft.

Male. *Filaments* 0: *antheræ* 2, placed on the sides of the stigma.

Fem. *Stigma* between the barren antheræ: *capsule* inferior, turbinate, many-seeded.

uliginosa.

Phyllachne.

Terra del fuego. *Forst. char. gen.* p. 115. t. 58.

Plant mossy, tufted: *stems* covered with imbricate, subulate leaves: *flowers* terminal, sessile.

1745. PANDANUS. *Calyx* 0: *corol* 0.

Male. *Antheræ* sessile, inserted into the ramification of the spadix.

Fem. *Stigmata* 2: *fruit* compound.

odoratissimus.

Pandanus.

Screw-pine.

Asia. *Roxb. coromand. t.* 94-96. *Rheed. Mal.* 1. t. 1-5.

Branches issuing large fusiform roots descending to the ground and dividing: *leaves* clasping, imbricate in 3 spiral rows, spinous on the back and edges.

1746. ASCARINA. *Ament* filiform: *corol* 0.

Male. *Anthera* worm-shaped, 4-grooved.

Fem. *Style* 0: *stigmata* 3-lobed: *drupe* ?

polystaba.

Ascarina.

Society Isles. *Forst. flor. austral. n.* 364.

1747. BROSIMUM. *Ament* globular, every where dotted with orbicular peltate scales: *corol* 0.

Male. *Filament* solitary, between the scales.

Fem. *Style* cloven: *berry* 1-seeded.

Alicafirum. Leaves ovate-lanceolate, perennial : aments globular, pedicelled, solitary, axillary : fruit barky.
Jamaica. Swartz. *prodr.* 12. *Ait. kew.* 2. p. 387.

Spurium. Leaves lance-ovate, pointed : aments ovate, pedicelled, axillary : in pairs : fruit soft. *Milk-wood*.
Jamaica. Swartz. *prodr.* 12. Brown. 369. n. 8.

ORDER II. DIANDRIA.

1748. VALLISNERIA. Male. *Spathe* 2-parted :
spadix covered with florets : *corol* 3-parted.
Fem. *Spathe* cloven, 1-flowered : *calyx* 3-parted, superior : *stigma* 3-parted : *capsule* 1-celled, many-seeded.

Spiralis. Flowers with 2 stamina :
Finmark. Mich. *gen. tab.* 10. f. 1, 2.

octandra. Flowers with 8 stamina.
Coromandel. Roxb. *Coromena. tab.* 165.

1749. CECROPIA. Male. *Spathe* caducous :
ament imbricate, with turbinate compressed quadrangular scales.
Fem. As in the male. *Germ*s imbricate : *style* 1 :
stigma lacerated : *berry* 1-seeded.

peltata, Cecropia,
South America. Sloan. *Jam.* 1. t. 88. f. 2. t. 89.
Tree with a hollow trunk and branches : leaves at the ends of the branches, peltate, lobed, white underneath : fruit oblong cylindrical compound berries,

1750. SALIX. *Calyx* a scale of the ament : *corol* 0.
Male. *Stamina* 1-5, with a nectariferous gland at the base.

Fem. *Stigmata* 2 : *capsule* superior, 1-celled, 2-valved ;
seeds invested with down. *Willow, Osier*

A. Leaves serrate, glabrous or nearly so.

hermaphroditica. Flowers diandrous, hermaphrodite.
Sweden. Bark pale russet-colour.

triandra. Triandrous : leaves linear-oblong : germs pedicelled.
Osier beds. Eng. Bot. t. 1435. Curt. *Enod.* 6. t. 72.

- lanceolata*. Triandrous: leaves lanceolate, tapering to both ends: petioles decurrent: germs pedicelled.
Sufflex. *Eng. Bot. t. 1436*.
- pentandra*. Pentandrous: leaves elliptic-lanceolate, crenulate: germs glabrous, nearly sessile.
Rivulets. *Gmel. Sib. 5. t. 34. f. 1*.
- aphyllifolia*. Leaves lanceolate, undulate-crenate, glabrous underneath: stipules somewhat lunate.
Scotch Alps. *Flor. Lapp. tab. 8. f. d*.
- nigricans*. Leaves elliptic-lanceolate, crenate, glaucous underneath: germs silky, pedicelled, lanceolate, pointed.
Osier-beds. *Eng. Bot. t. 1213. Flor. Lapp. t. 8. f. c*.
- bicolor*. Leaves elliptic, acute, denticulate-serrate, nearly glabrous, glaucous underneath: germs silky, pedicelled, lanceolate.
Woods. *Trans. Linn. soc. 6. p. 122. S. laurina*.
- petiolaris*. Leaves lanceolate, glaucous underneath: germs silky, ovate, pedicelled: stigmata sessile, 2-lobed.
Marthes. *Eng. Bot. t. 1147*.
- japonica*. Leaves lanceolate, glaucous underneath; the younger ones villous.
Japan. *Tbunb, Jap, 24*. Branches flexuous.
- vitellina*. Leaves lanceolate, acute, without stipules, a little silky underneath, with cartilaginous serratures: stigmata emarginate.
Marthes. *Eng. Bot. t. 1389, Hoffm. Sal. t. 11. 12*.
- amygdalina*. Triandrous. leaves ovate, oblique: germs pedicelled: stipules very large.
Bogs. *Smith. Linn. Trans. 6. p. 119*.
- Russelliana*. Leaves lanceolate. pointed: germs pedicelled, subulate, smooth.
Osier-holts. *Smith. Flor Brit. 3. p. 1045. n. 9*.
- hastata*. Leaves somewhat ovate, acute, sessile: stipules somewhat heart-shaped.
Switzerland. *Flor. Lapp. t. 8. f. 9*.
- Aegyptica*. Leaves lance-ovate: veined: petioles simple, without stipules.
Egypt. *Alp. Æg. t. 62. Gmel. it. 3. t. 18*.
- fragilis*. Leaves lanceolate, pointed. petioles with glandular teeth: nectary of the males double.
Rivulets. *Woods. t. 198. Hoffm. Sal. 2. t. 31*.

- *tenuifolia*. Leaves elliptic, acute, glaucous underneath: stipules obso-
lete: capsules quite glabrous.
Wet Rocks. *Flor. Lapp. t. 8. f. 2.*
- *radicans*. Leaves elliptic-lanceolate, acute; unequally crenate, quite
glabrous: branches long, decumbent, rooting.
Marshes. *Smith. Flor. Brit. 3. p. 1053. n. 20.*
- babylonica*. Leaves linear-lanceolate: petioles glandular: branches
pendulous. *Weeping Willow.*
Levant. *Gmelin. 3. t. 34. f. 2.*
- *purpurea*. Monandrous, decumbent: leaves obovate-lanceolate: stig-
mata very short, obovate, nearly sessile.
Rivulets. *Eng. Bot. t. 1388. Ard. mem. 1. t. 11.*
- *Helix*. Monandrous, erect: leaves lanceolate; pointed: style long,
filiform: stigmata linear.
Osier bed. *Eng. Bot. t. 1343. Curt. Lond. 6. t. 71.*
- *Lamberti-
ana*. Monandrous, erect: leaves obovate-lanceolate, acute: stig-
mata very short, ovate, emarginate.
Osier beds. *Eng. Bot. t. 1359. Flor. Brit. p. 1041. n. 3.*
- *Forbiana*. Monandrous, erect: leaves slightly stipuled, lanceolate,
acute, glaucous underneath: stigmata linear.
Osier holts. *Eng. Bot. t. 1344. Flor. Brit. p. 1041. n. 4.*
- *rubra*. Leaves linear-lanceolate, elongated, acute of the same co-
lour both sides: stigmata somewhat ovate.
Osier beds. *Eng. Bot. t. 1145. Vill. Delph. 3. t. 51. f. 30.*
- *Crocceana*. Monadelphous: leaves elliptic, slightly ferrate, glaucous
underneath.
Marshes. *Eng. Bot. t. 1146.*
- *myrsinites*. Leaves elliptic, veined, shining both sides: branchlet
hairy: capsules subulate, pubescent.
Scotch Alps. *Eng. Bot. t. 1360. Flor. Dan. t. 1054.*
- *prunifolia*. Leaves ovate, smooth above, glaucous underneath: branch-
lets slightly pubescent: capsules ovate, silky.
Scotch Alps. *Eng. Bot. t. 1361. Hoffm. Sal. 1. t. 19.*
- *venulosa*. Leaves ovate, reticulate with veins above, a little glaucous
underneath.
Scotch Alps. *Eng. Bot. t. 1362. Flor. Brit. n. 23.*
- *carinata*. Leaves ovate, denticulate, folded so as to form a kee
with very fine veins.
Scotch Alps. *Eng. Bot. t. 1363. Flor. Brit. n. 24.*

- **myrtilloides*. Leaves elliptic, acute, obscurely denticulate, glaucous underneath: branchlets quite glabrous.
Scotch Alps. *Eng. Bot.* t. 1056. *Flor. Lapp.* t. 8. f. i. k.
- **Arbuscula*. Leaves lanceolate, obscurely denticulate, without stipules: branchlets pubescent.
Scotch Alps. *Eng. Bot.* t. 1366. *Flor. Lapp.* t. 8. f. m.
- retusa*. Leaves slightly ferrate. obovate, very obtuse: stem prostrate.
South of Europe. *Younger-leaves* orbicular.
- decipiens*. Leaves lanceolate, petioled; lower-ones smaller, obovate, reflected.
Europe. *Hoffm. Sal.* 2. p. 9. tab. 31.
- **herbacea*. Leaves orbicular, quite glabrous, reticulate with veins, shining both sides: capsules glabrous.
Alps. *Flor. Lapp.* t. 8. f. b. *Flor. Dan.* t. 117.
- arbutifolia*. Leaves obovate, acute, without stipules.
Siberia. *Gmel. Sib.* 1. 160. t. 35. f. 2?
- divaricata*. Leaves ovate-lanceolate, undulately ferrate: branches divaricate.
Dauria. *Pall. Ross.* 1. p. 80.
- rharnnifolia*. Leaves ovate, obtuse, glaucous underneath.
Siberia. *Gmel. Sib.* 1. p. 159. t. 35. f. 1. A.
- berberifolia*. Leaves sessile, ovate, tooth-ferrate, veined, shining.
Siberia. *Pall. Ross.* 1 t. 82. *Gmel. Sib.* 1. t. 35. f. 3.

B. Leaves quite entire, nearly glabrous.

- **reticulata*. Leaves elliptic-orbicular, obtuse, reticulate with veins, glaucous underneath: capsules villous.
Alps. *Flor. Lapp.* t. 8. f. l. *Flor. Dan.* t. 212.
- integra*. Leaves linear-oblong, obtuse.
Japan. *Thunb. Jap.* 24. Stems cinereous.
- glauc.* Leaves with a very fine glaucous down underneath, ovate-oblong, without stipules.
Alps. *Flor. Lapp.* t. 7. f. 5. t. 8. f. p. Leaves elliptic.
- caespica*. Leaves linear-lanceolate, without stipules.
Russia. *Pall. Ross.* 1 p. 74. Branches yellow.

C. Leaves villous.

- **arenaria*. Leaves nearly very entire, ovate, acute, a little villous above, thickly downy underneath.
Scotch Alps. *Flor. Lapp.* t. 8. f. o. g. *Gmel. Sib.* t. 36. f. 1.

- *argentea*. Leaves very entire, a little revolute, with short hooked points, a little villous above, silvery-silky underneath: branchlets silky.
Sea sands. *Eng. Bot. t. 1364 Ray. t. 19. f. 3.*
- *prostrata*. Leaves slightly toothed, elliptic, acute, silky glaucous underneath: stem prostrate.
Moist mountains. *Smith flora. Brit. p. 1060. n. 30.*
- *fusca*. Leaves slightly denticulate, elliptic-oblong, acute, glabrous above, silky-glabrous underneath: petioles tapering.
Scotch woods. *Flor. Lapp. t. 8 Flor. Brit. n. 31.*
- *repens*. Leaves very entire, elliptic-lanceolate, slightly mucronate, nearly naked above, glaucous or silky underneath: stem depressed.
Heaths. *Eng. Bot. t. 183. Hoffm. Sal. 1 t. 15. 16.*
- *resmarifolia*. Leaves very entire, linear-lanceolate, stiff, silky underneath: stem erect: stipules erect, flat.
Moist sands. *Eng. Bot. t. 1365.*
- Gmelini*. Leaves very entire, elliptic lanceolate, hoary above, silky underneath.
Siberia. *Gmel. Sib. 163. n. 19.*
- serotina*. Leaves oblong, acute, very entire, silky: stipules lanceolate, deciduous.
Siberia. *Pall. it. 3. app. n. 135. t. Nn.*
- arctica*. Leaves very entire, obovate-rounded, villous underneath, without stipules.
Russia. *Pall. Ross. 1. p. 86.*
- *cinerea*. Leaves nearly very entire, obovate-lanceolate, glaucous slightly villous and reticulate underneath: stipules half heart-shaped, serrate.
Woods. *Vill. Delph. 3. t. 50. f. 7. S. daphnoides.*
- *aurita*. Leaves slightly serrate, obovate, obtuse, with a small hooked point, villous and reticulate both sides: stipules variously formed.
Woods. *Eng. Bot. t. 1487. Flor. Lapp. t. 8. f. 9.*
- *aquatica*. Leaves slightly serrate, obovate-elliptic, pubescent, flat, a little glaucous underneath: stipules rounded, toothed.
Sallow.
Hedges. *Engl. Bot. t. 1437. Hoffm. Sal. t. 5 f. 3.*
- *oleifolia*. Leaves denticulate, obovate, lanceolate, acute, flat, a little glaucous and hairy underneath: stipules minute.
Woods. *Eng. Bot. t. 1402.*

- retinifolia*. Leaves elliptic-orbicular, obscurely denticulate, villous underneath with rectangular veins: stigmata cloven.
Mountainous woods. *Eng. Bot. t. 1403*.
- hirta*. Leaves elliptic-hearted, pointed, denticulate, downy both sides: stipules half hearted, flat, toothed, nearly glabrous: branches hairy.
Norfolk. *Eng. Bot. t. 1404*.
- lanata*. Leaves very entire, flat, downy both sides: stipules obsolete: capsules ovate, nearly sessile.
Lapland. *Flor. Lapp. t. 7. f. 7. t. 8. f. x.*
- sphaecolata*. Leaves very entire, elliptic, flat, downy both sides, sphaecelate at top: stipules obsolete: capsules subulate, pedicelled.
Scotch Alps. *Hoffm. Sal. 1. t. 5. f. 4. t. 21. f. d.*
- Lappomum*. Leaves lanceolate, very entire, hairy both sides: capsules white woolly.
Lapland. *Flor. Lapp. t. 8. f. t.*
- incubacea*. Leaves very entire, lanceolate, shining villous underneath: stipules ovate, acute.
Sweden, Siberia. *Branches whitish-green.*
- sibirica*. Leaves slightly ferrate, ovate-lanceolate, stiffish: stipules ovate, slightly toothed.
Siberia. *Pall. Ross. 1. p. 78. t. 81. f. 3.*
- caprea*. Leaves ovate, pointed, ferrate, undulate, downy underneath: stipules somewhat lunate: capsules swelling.
Woods. *Eng. Bot. t. 1488. Hoffm. Sal. 1. t. 3. f. 1. 2.*
- acuminata*. Leaves lance-oblong, pointed, undulate, denticulate, downy underneath: stipules kidney-form: capsules ovate-subulate.
Woods. *Eng. Bot. t. 1434. Hoffm. Sal. 1. t. 6. f. 1. 2.*
- hipularis*. Leaves lanceolate, pointed, obscurely crenate, downy underneath: stipules half hearted, very large: nectary cylindrical.
Other holts. *Eng. Bot. t. 1214. Flor. Brit. n. 42.*
- mollissima*. Leaves lanceolate, pointed, slightly crenate, silky-hairy underneath: stipules lunate, minute.
Other holts. *Eng. Bot. t. 1509. Flor. Brit. n. 43.*
- pedicellata*. Leaves lanceolate, wrinkled above, grey-downy underneath: capsules pedicelled, glabrous.
Barbary. *Desfont. Atl. 362.*

- tristis*. Leaves linear-lanceolate, petioled, wainkled, downy underneath, without stipules.
North America. *Aiton. Hort. Kew.* 3. p. 393.
- **viminalis*. Leaves lance-linear, very long, pointed, very entire, silky underneath: branches wand-like: style elongated.
Olier beds. *Hoffm. Sal.* 1. t. 2. f. 1. 1. ii. t. 5. f. 2.
- **alba*. Leaves lanceolate, pointed, ferrate, silky both sides; the lowest ferratures glandular: stigmata 2-parted.
Woods. *Hoffm. Sal.* 1. p. 41. t. 7. 8.
- tetrasperma*. Leaves broad-lanceolate, pointed, ferrulate, glabrous above, whitish below: capsule heart-shaped.
East Indies, *Roxb. Coromand.* 1. p. 66. t. 97.
† *Stilago diandra*.

ORDER III. TRIANDRIA.

1751. EMPETRUM. *Calyx* 3-parted: *petals* 3.

Male. *Stamina* 3—9, capillary, very long.

Fem. *Stigmata* 9: berry superior, 3--9 seeded.

Crow-berry. Crake-berry.

album. Stems erect: branchlets pubescent.
Portugal. *Parke Theat.* 1485. 1. Fruit white.

**nigrum*. Stems procumbent.
Heaths. *Engl. Bot. t.* 526. Fruit black.

1752. RUSCUS. *Calyx* 6-leaved; *corol* 0.

Male. *Nectary* ovate, tubular, bearing the stamina within.

Fem. *Stamina* 0: *style* 1: berry superior, 3-celled: seeds in pairs. *Butcher's broom.*

**aculeatus*. Leaves with pungent points, bearing the flowers above, naked.
Groves. *Engl. Bot. t.* 560. *Woodv. t.* 237. *Blackw. t.* 155.

Hypophyllum. Leaves bearing the flowers underneath, naked.
Italy, *Black. t.* 194. *Moris. sect.* 13. t. 5. f. 3.

Hypoglossum. Leaves floriferous underneath, beneath the leaflet:
South of Europe. *Blackw. t.* 128. *Hort. Rom. t.* 9.

androgynus. Leaves bearing the flowers at the edge.
Canaries. *Dill. Elth. t.* 250. f. 322. Androgynous.

**racemosus*. Raceme terminal, hermaphrodite. *Alexandrian laurel.*
Portugal. *Hort. Rom.* 1. t. 10. *Moris. J.* 13. t. 5. f. 14.

1753. OSYRIS. *Calyx* 3-cleft: *corol* 0.

Male. *Filaments* very short.

Fem. *Stigma* roundish, 3-parted: *berry* globular, 1-celled, umbilicated.

alba. Leaves linear. *Poet's Cassia*.
South of Europe. *Calyx* and *corol* yellow.

japonica. Leaves ovate, floriferous.
Japan. *Tbunb. Jap.* 30. Leaves setaceous-serrate.

1754. MYRISTICA. *Calyx* 3-cleft, *corol* 0.

Male. *Antheræ* uniting round the upper-part of the filament.

Fem. *Stigma* cloven: *capsule* superior, drapaceous, 2-valved: *nut* invested with a variously lacerated membrane. *Nutmeg-tree*.

aromatica. *Calyx* ovate, 3-cleft at top: leaves elliptic, pubescent underneath: fruit glabrous.

East Indies. *Woodv. t.* 154. *Rumph. Amb. 2. t.* 14.

Tree with a reddish brown bark: leaves alternate, pointed, undulate: *peduncles* axillary, solitary, 2 or 3-flowered; *nut* surrounded with a fulvous tough reticulate covering, called *Mace*.

sebifera. Leaves hearted, oblong, downy underneath: fruit downy.
Guiana. *Aubl. Guian.* 904. *t.* 345.

fatua. Leaves oblong-lanceolate, pubescent underneath: *calyx* and fruit villous.
Tobago. *Swartz. prodr.* 96.

1755. STILAGO. *Calyx* 1-leaved, cap-shaped: *corol* 0.

Male. *Filaments* 2 or 3, on the germ.

Fem. *Stigma* sessile: *drape* with a 1 or 2-celled nut.

Bunias. Triandrous: nut 2-celled.
India. *Rheed. Mal.* 4. *t.* 56. *Rumph. Amb. 3. t.* 151.

diandra. Diandrous: nut 1-celled.
East Indies. *Roxb. Coromand. 2. p.* 35. *t.* 166.

1756. CATURUS. Male. *Calyx* 0: *corol* 3-cleft.

Fem. *Calyx* 3-parted: *corol* 0: *styles* 3: *capsule* 3-grained, 3-celled: *seeds* solitary.

spiciflorus. Spikes axillary, pendulous: stem arboreous.
East Indies. *Rheed. Mal.* 5. *t.* 32. *Rumph. 4. t.* 37.

scandens. Spikes axillary, erect: stem climbing.
Cochinchina. *Lour. Cochinch.* 612.

1757. EXCÆCARIA. *Ament* naked, covered with
florets: *calyx* 0: *corol* 0.

Fem. *Styles* 3: *capsule* 3-grained: *seeds* solitary.

Agallocha. Excæcaria.

East Indies. *Rumph. Amb.* 2, 1. 79. 80.

1758. RESTIO. *Calyx* 3-leaved, 2 of the leaves
boat-shaped. *corol* of 3 lanceolate leaves, one of
them broader.

Fem: *Germ* 3-sided: *style* 1, rarely 2 or 3: *stigmata*
1--3, feathered.

These are all from the Cape. *Thunb. prodr.* 14—16.

paniculatus. Stem frondose: spike panicked.

Rottb. progr. ic. tab. 2. f. 3.

verticillaris Branches in whorls jointed: panicle compound, contracted.

dichotomus. Culms forked: spikes solitary.

Rottb. progr. ic. tab. 2. f. 1.

vimineus. Culms simple: spikes corymbed.

Rottb. progr. ic. t. 1. f. 1.

triflorus. Culms simple, leafy: spikes alternate, sessile.

simplex. Culms simple: spikes terminal.

Rottb. progr. ic. t. 2. f. 5.

germinus. Culm simple, leafless: spikes turbinate, pendulous; the
scales obtuse with a point.

Tectorum. Culm simple, leafless: raceme compound, erect.

imbricatus. Culm simple, leafless: spike oblong, compressed.

vaginatus. Culm simple, leafless: spikes alternate, erect, with pointed
scales.

aristatus. Culm simple, leafless: spikes terminal, obovate, erect, with
awned scales.

umbellatus. Culm simple, leafless: spikes umbelled; ovate, with oblong
obtuse scales.

spicigerus. Culm simple, leafless: spikes oblong, 6-sided; scales lanceo-
late, spreading at the tip.

acuminatus. Culm simple, leafless: panicle simple, erect, with awned
scales.

parviflorus. Culm simple, leafless: panicle erect, with rounded mem-
branaceous scales.

- erectus.* Culm simple, leafless: panicle erect, involucred: spathes imbricate, lanceolate.
- argenteus.* Culm simple, leafless: panicle erect, with lanceolate scarious scales.
- scariosus.* Culm simple, leafy: scales of the spike lanceolate, scarious. *Bergm. Cap. 353. t. 5. f. 8. Thamnochortus.*
- Thamnochortus.* Culm simple, leafy: panicle spreading; scales lanceolate, scarious at the edge.
- fruticosus.* Culm simple, leafy: panicle compound, with scarious jagged scales.
- tetragonus.* Culm and branches 4-sided: spikes alternate.
- triticeus.* Culm forked, leafless, erect: branches round: spikes alternate.
- glomeratus.* Culms forked, leafless, smooth: panicle glomerate.
- incurvatus.* Culm forked, leafless, striate: spikes imbricately aggregate.
- digitatus.* Culm forked, leafless: branches round: spikes in threes, oblong.
- Scopa.* Culm forked, leafy: branches compressed: spikes of the panicle glomerate.
- viraginus.* Culm forked, leafy: branches compressed: spike panicked, pendulous.

1759. ELEGIA. *Spathes* deciduous: *calyx* 6-leaved: *corol* 0.

Male. *Ament* lax, with pedicelled florets and a setaceous bracte.

Fem. *Ament* with a compound raceme: *styles* 3, filiform: *stigmata* simple.

juncus. Elegia.

The Cape. *Rottb. progr. ic. t. 3. f. 4. Restio.*

Plant rush-like: *culms* simple: *spikes* glomerate.

1760. MABA. Male. *Calyx* 3-cleft: *corol* 3-cleft.

Fem. *Calyx* 3-cleft: *corol* —: *drupe* superior, 2-celled,

elliptica. Maba.

Friendly Islands. *Forst. char. gen. p. 121. tab. 61.*

Tree with hairy twigs: *leaves* elliptic, veined, glabrous: *flowers* small, villous: *heruels* 3-sided.

1761. PHŒNIX. *Calyx* 3-parted: *corol* 3-petalled.
 Male. *Antheræ* linear, 4-sided.
 Fem. *Pistil* 1: *drupe* ovate: *seed* solitary. *Date palm*.

dactylifera Fronds pinnate, shorter than the trunk.
 Arabia, Persia. *Blackw. t. 202. Kämpf. amœn. t. 1. 2.*

farinifera. Fronds pinnate, longer than the trunk.
 East Indies. *Roxb. Coromand. 1. p. 53. t. 74.*

ORDER IV. TETRANDRIA.

1762. VISCUM. Male. *Calyx* 0: *petals* 4, resembling a calyx, dilated and united at the base: *antheræ* sessile, growing to the petals.

Fem. *Calyx* a slight border: *petals* 4, dilated at the base: *style* 0: *berry* inferior, 1-seeded. *Misseltoe*.

album. Leaves lanceolate, obtuse: stem forked: heads of flowers axillary.

On trees. *Eng. Bot. 1417. Woodw. t. 270. Blackw. t. 184.*

rubrum. Leaves lanceolate, obtuse: spikes lateral.
 Bahamas. *Catesby Corol. 2. t. 81.*

purpureum. Leaves obovate: racemes lateral.
 West Indies. *Catesby Corol. 2. t. 95.*

opuntoides. Stem proliferous, much branched, leafless, compressed.
 Jamaica. *Sloan. Jam. 2. p. 93. t. 201. f. 1.*

japonicum. Stem proliferous, branched, leafless: joints 3-sided.
 Japan. *Thunb. Linn. Trans. 2. p. 329.*

capense. Stem leafless: branches cross-armed.
 The Cape. *Shrub* resembling *Salicornia herbacea*.

verticillatum. Stem whorled: leaves ovate, 3-nerved, obtuse.
 Jamaica. *Sloan. Jam. 2. p. 93. t. 201. f. 2.*

flavens. Leaves ovate, veined: racemes axillary, in threes or fours each side.
 West Indies. *Plum. ic. 256 t. 258. f. 4.*

pauciflorum Leaves ovate, obtuse, nerveless: flowers scattered, solitary: stem shrubby: branches alternate.
 The Cape. *Plant* hoary, but not downy.

terrestre Stem herbaceous, 4-sided, cross-armed: leaves lanceolate.
 Philadelphia. *Spikes* axillary, sessile, oblong.

rotundifolium. Leaves orbicular: flowers in whorls.
The Cape. *Linn. suppl.* 426.

antarcticum. Leaves ovate, very entire: racemes on the branches and terminal, jointed.
New Zealand. *Forst. prodr.* 2. 370.

1763. HIPPOPFAE. Male. *Calyx* 2-parted: *corol* 0.
Fem. *Calyx* tubular, cloven: *style* 1: *berry* superior, 1-seeded: *seed* with a double coat. *Sea Buck-thorn*.

rhamnoi-des. Leaves lanceolate.
Sea coast. *Engl. Bot. t.* 425. *Flor. Dan. t.* 265.

canadensis. Leaves ovate.
Canada. *Leaves* silvery underneath.

1764. TROPHIS. Male. *Calyx* 0: *corol* 4-petalled
Fem. *Calyx* 0: *corol* 0: *style* 2-parted: *berry* 1-celled
1-seeded.

americana. Trophis.
West Indies. *Brown Fam.* 357. *t.* 37. *f.* 1.
Tree with nearly erect branches: *leaves* oblong, pointed; *male-flowers* in roundish aments; *females* racemed.

1765. BATIS. Male. *Ament* 4-fold, imbricate:
calyx 0: *corol* 0.
Fem. *Ament* ovate, with a 2-leaved involucre:
calyx 0: *corol* 0: *stigma* 2-lobed, sessile: *berries* conjoined, 4-seeded.

maritima. Batis.
Caribbees. *Jacq. Amer. t.* 40. *f.* 4. *pict. t.* 246.
Shrub with diffuse brittle branches: *leaves* oblong, acute, fleshy, sessile, convex underneath.

1766. MYRICA. *Calyx* a concave scale of the ament:
corol 0.
Fem. *Styles* 2: *berry* 1-seeded. *Candleberry Myrtle*.

Gale. Leaves lanceolate, slightly serrate: stem shrubby.
Marshes. *Engl. Bot. t.* 562. *Flor. Dan. t.* 327.

cerifera. Leaves lanceolate, slightly serrate: stem arboreous.
North America. *Catesby Corol.* 1. *t.* 13. 69.
The Americans make candles from the berries.

Faya. Leaves elliptic-lanceolate, slightly ferrate: male-aments compound: drupe with a 4-celled nut.
 Madeira, Azores. *Aiton Kew*. 3. p. 397.

æthiopica. Leaves lanceolate or elliptic, toothed, the lowermost entire. The Cape. *Pluk. phyt. t.* 48. f. 8.

montana. Leaves lanceolate, ferrate, not dotted underneath: aments globular.
 Arabia. *Vabl. symb.* 2. 99. Calyx 4-leaved.

Nagi. Leaves lanceolate, entire, veinless.
 Japan. *Kämpf. Amén.* 1. 874. Calyx 4-leaved.

quercifolia. Leaves oblong, oppositely pinnate.
 The Cape. *Burm. Ind.* 1. 98. f. 1. *Comm. hort.* 2. t. 81.
 1. Leaves hairy. 2] Leaves glabrous.

cordifolia. Leaves somewhat heart-shaped, ferrate, sessile.
 The Cape. *Pluk. phyt. t.* 319. f. 7. *Walth. hort.* 10. 3.

trifoliata. Leaves ternate, toothed.
 The Cape. Leaves lanceolate, downy underneath.

1767. BRUCEA. Calyx 4-leaved: petals 4.
 Fem. Pericarps 4, 1-seeded.

ferruginea. Brucea.
 Africa. *Bruce Trav.* 5. t. 1. f. *Mill f. t.* 25.
 Shrub with alternate branches: leaves unequally pinnate, with
 rufous downy petioles: spikes axillary.

1768. ANTHOSPERMUM. Calyx 4-parted: corol 0.
 Fem. Pistils 2: germ inferior, 4-sided.

æthiopicum. Leaves polished. Amber tree.
 Africa. *Hort. cliff.* 1. 27. *Pluk phyt t.* 183. f. 1

ciliare. Leaves ciliate on the edge and keel.
 The Cape. Leaves lanceolate: flowers axillary.

herbaceum. Leaves 6 in a whorl, polished: stem herbaceous.
 The Cape. Stems diffuse, roundish, red.

1769. MONTINIA. Calyx 4-toothed: petals 4.
 Fem. Style cloven: capsule oblong, 2-celled: seeds numerous, flat.

acris. Montinia.
 The Cape. *Smith, specil. t.* 15. *Pluk. mant. t.* 393. f. 3.
 Stem shrubby, angular: leaves oblong-oval, obtuse, entire, glabrous: flowers terminal, solitary.

1770. SCHÆFFERA. Male. *Calyx* 4 or 5-leaved:
corol 4-petalled or 0.

Fem. *Calyx* 4 or 5-parted: *corol* 4 parted or 0: *styles*
2: *berry* 2-celled: *seeds* solitary.

completa. Flowers 4-petalled, axillary.
West Indies. *Sloan. Jam.* 2. 101. t. 209.

lateriflora. Flowers without petals, lateral.
West Indies. *Swariz. prodr.* 38 *flor. Aust.* 329.

ORDER V. PENTRANDRIA.

1771. PISTACIA. Male an ament: *calyx* 5-cleft:
corol 0.

Fem. *Flowers* distinct: *calyx* 3-cleft: *corol* 0: *styles* 2;
drupe dry, 1-seeded.

officinalis Leaves simple ternate and pinnate; leaflets oval.
Levant. *Bocc. Mus.* 2. 139. t. 93.

barbonensis. Leaves pinnate and ternate, nearly orbicular.
South of Europe. *Leaflets* on short petioles.

vera. Leaves unequally pinnate; leaflets somewhat ovate, recurved.
Fistic-nut tree.
Persia, India. *Blackw.* t. 461.

terebinthi- Leaves unequally pinnate; leaflets 7, ovate-lanceolate.
nus *Turpentine tree.*
South of Europe. *Blackw.* t. 478. *Woodv.* t. 153.
Cypress or Chian *turpentine* is procured from this.

atlantica Leaves deciduous, unequally pinnate; leaflets lanceolate,
slightly undulate: petioles winged.
Barbary. *Desfont. Atl.* 364.

Lentiscus. Leaves abruptly pinnate; leaflets lanceolate.
South of Europe. *Woodv.* t. 152. *Blackw.* t. 195.
The resinous drug called *Mastick* is procured from this tree, by
making transverse incisions, from which it exudes in small drops

1772. XANTHOXYLUM. *Calyx* 5-parted: *corol* 0.
Fem. *Pistils* 5: *capsules* 5, 1-seeded. *Toothack tree.*

Clava Her- Leaves pinnate.
culis. Jamaica. *Catesby. Carol.* 1. t. 26. *Dubam. arb.* 1. t. 97.

trifoliatum Leaves ternate.
China. *Shrub* with a recurved prickly under the base and top of
the petioles: *umbels* simple: *styles* 3.

1773. PICRAMNIA. *Calyx* 3 or 5-parted: *corol* 3 or 5-petalled.

Fem. *Styles* 2: *berry* 2-celled: *seeds* in pairs.

antidesmia Racemes very long: flowers with 3 *stamina*.
Jamaica. *Sloan's Jam.* 2. 101. *tab.* 209. *f.* 2.

pentandra. Racemes short: flowers with 5 *stamina*.
West Indies. *Savarez flor. ind. aust.* 220.

1774. ASTRONIUM. *Calyx* 5-leaved: *petals* 5.

Male. *Nectary* 5 glands in the disk.

Fem. *Styles* 3: *seed* 1, lactescent.

graveolens Astronium.

New Spain. *Jaeg. Amer. t.* 181. *f.* 96. *pict. t.* 262. *f.* 65.

Tree abounding in a terebinthine juice: *leaves* unequally pinnate; *leaflets* oblong-ovate, pointed: *panicles* lax: *flowers* small, red.

1775. MELICYTUS. *Calyx* 5-toothed: *petals* 5: *nectaries* 5 scales.

Male. *Filaments* fixed to the inside of the nectary.

Fem. *Stigma* flat, 4 or 5 lobed: *capsule* berried, 1-celled: *seeds* imbedded in the pulp.

ramiflorus. Melicytus.

New Zealand. *Forst. Gen. p.* 123. *tab.* 62.

1776. CANARIUM. *Calyx* 2-leaved: *petals* 3.

Fem. *Stigma* sessile: *drupe* with a 3-seeded nut.

commune. Canarium.

East Indies. *Rumph. Amb. 2. t.* 47. 49. 55.

Tree with alternate unevealy pinnate leaves: *leaflets* ovate-oblong, pointed: *panicle* divaricate.

1777. RICHERIA. *Calyx* 4 or 5-cleft: *petals* 4 or 5: *nectaries* 4 or 5 glands at the base of the germ.

Male. *Stamina* between the glands of the nectary.

Fem. *Style* 3-cleft: *capsule* covered with a bark: 3-celled, 6-valved: *seeds* solitary, pendulous.

grandis. Richeria.

Montserrat. *Vahl. ecl.* 1. 30.

Tree large: *leaves* elliptic, entire: *spikes* axillary.

1778. ANTIDESMIA. *Calyx* 5-leaved: *corol* 0.

Male. *Antheræ* half cloven.

Fem. *Stigmata* 5: *berry* cylindrical, 1-seeded.

alexiteria. Leaves ovate, acute: flowers racemed.
East Indies. *Rheed. Mal.* 4. t. 56. *Pluk. am.* t. 339. f. 1.

acida. Leaves obovate: spikes solitary
East Indies. *Retz. obs.* 5. p. 30. n. 87.

scandens. Leaves palmate, serrate: stem climbing.
China. *Lour. Cochin.* 617.

1779. VILLARIA. *Calyx* 5-parted: *petals* 5.
Fem. *Style* 1: *berry* 3-celled: *seeds* solitary.

1780. IRESINE. *Calyx* 2-leaved: *petals* 5.
Male. *Nectary* 5 scales, between the stamina.
Fem. *Stigmata* 2, sessile: *capsule* with downy seeds.

Celosia. *Iresine.*
West Indies. *Sloan. Jam.* 1. 142. tab. 90.
Stems weak, with knotty joints: *leaves* ovate, entire, glabrous:
flowers in loose terminal panicles.

1781. SPINACIA. Male. *Calyx* 5-parted: *corol* 0.
Fem. *Calyx* 4-cleft: *corol* 0: *styles* 4: *seed* 1, within
the hardened calyx. *Spinach.*

oleracea. Fruit sessile, unarmed or prickly.
— *Black. t.* 49: *Park. parad. t.* 497. f. 4.

fera. Fruit peduncled.
Siberia. *Gmel. Sib.* 3. 86. n. 67. t. 16.

1782. ACNIDA. Male. *Calyx* 5-leaved: *corol* 0.
Fem. *Calyx* 2-leaved: *corol* 0: *styles* 5: *seed* 1, covered
with the succulent calyx.

cannabina. *Acnida.* *Virginian hemp.*
Virginia. *Leaves* linear-lanceolate, entire, alternate: *racemes*
axillary, naked, lax, erect.

1783. CANNABIS. Male. *Calyx* 5-parted: *corol* 0.
Fem. *Calyx* 1-leaved, entire, gaping on the side: *corol* 0:
styles 2: *nut* 2-valved, within the closed calyx.

stavia. *Cannabis.* *Hemp.*
India. *Blackw. t.* 322. *Mill. fig. t.* 77.

Stem branched, hairy: *leaves* in finger-like divisions, slender, serrate, hairy: *male-flowers* solitary, axillary; *females* in pendulous terminal spikes.

1784. HUMULUS. Male. *Calyx* 5-leaved: *corol* 0:
antheræ with 2 pores at top.

Fem. *Calyx* an oblique entire scale of the ament: *corol*
0: *styles* 2: *seed* single, coated.

**Lupulus*. Hamulus. *Hop.*
Hedges. *Engl. Bot. t. 427. Mill. ill. t. 88. Blackw. t. 536.*

1785. ZANONIA. *Calyx* 3-leaved: *corol* 5-parted.

Fem. *Styles* 3: *berry* inferior, 3-celled: *seeds* 2.

indica. Zanonias.
Malabar. *Rheed. Mal. 8. t. 47. 48. 49.*

1786. FEUILLEA. *Calyx* 5-cleft: *corol* 5-cleft;
nectary 5 convergent filaments.

Fem. *Styles* 3: *pome* hard, 3-celled, covered with a bark.

trilobata. Leaves lobed, dotted underneath:
East Indies. *Herb* climbing, as in the next,

cordifolia. Leaves heart-shaped, angular.
West Indies. *Leaves* glabrous both sides:

ORDER VI. HEXANDRIA.

1787. FERREOLA. *Calyx* 3-cleft: *corol* 3-cleft.

Male. *Filaments* inserted into a hemiglobular receptacle.

Fem. *Style* 1: *germ* oval: *berry* 2 seeded.

buxifolia. Ferreola.
Coromandel. *Roxb. Coromand. 1. p. 35. t. 45.*
Trunk with a ferruginous bark: *leaves* oval, entire.

1788. TAMUS. *Calyx* 6-parted: *corol* 0.

Fem. *Style* 3-cleft: *berry* interior, 3-celled: *seeds* 2
Black bryony.

**communis*. Leaves heart-shaped undivided.
Woods. *Eng. Bot. t. 91. Blackw. t. 457. Mill. illust.*

cretica. Leaves 3-lobed.
Crète. *Sp. pl. 1458.*

1789. SMILAX. *Calyx* 6-leaved: *corol* 0.

Fem. *Styles* 3: *berry* 3-celled: *seeds* 2.

A. *Stem* prickly, angular.

aspera. Leaves with prickly teeth, heart-shaped, 9-nerved.
Spain, Italy. *Pluk. phyt. t. 110. f. 3.*

- excelsa*. Leaves unarmed, heart-shaped, 9-nerved.
Syria, *Buxb. cent.* 1. t. 27.
- zeylanica*. Leaves unarmed; those of the stem heart-shaped, of the branches ovate-oblong.
East Indies. *Rumph. Amb.* 5. t. 161.
- Sarsaparilla*. Leaves unarmed, ovate, retuse with a point, 3-nerved.
America. *Woodv. t.* 194. *Blackw. t.* 393.
The root is the *Sarsaparilla* of the shops.
- oblongata*. Leaves oblong, pointed, glabrous, 3-nerved; the nerves prickly underneath.
West Indies. *Swart. prodr.* 59. *Fl. ind. occ.* 637.
- virginiana*. Leaves lanceolate, unarmed, pointed.
Virginia. *Pluk. phyt. tab.* 110. f. 4.
- B. Stem prickly, round.
- China*. Leaves unarmed, ovate-hearted, 5-nerved.
China, Japan. *Blackw. t.* 433. *Gmel. it.* 3. t. 6.
- rotundifolia*. Leaves unarmed, hearted, pointed 5 or 7-nerved.
Canada. *Leaves* wider than they are long.
- laurifolia*. Leaves unarmed, ovate-lanceolate, 3-nerved.
Virginia. *Plum. ic.* 85. Leaves thick.
- tamnoides*. Leaves unarmed, hearted, oblong, 7-nerved.
North America. *Catesby. Carol.* 1. t. 52.
- caduca*. Leaves unarmed, ovate, 3-nerved.
Canada. *Umbels* of flowers below the leaves.
- aristolochiæfolia*. Leaves unarmed, arrow-shaped, rather obtuse, 3-nerved
Vera Cruz. *Mart. Mill. Dict. n.* 18.
- spinosa*. Leaves ovate-lanceolate, the nerves prickly underneath.
Vera Cruz. *Mart. Mill. Dict. n.* 19.

C. Stem unarmed, angular.

- Bona nox*. Leaves ciliate, prickly.
North America. *Pluk. phyt. t.* 111. f. 1. 3.
- herbacea*. Leaves unarmed, ovate 7-nerved.
North America. *Pluk. phyt. t.* 225. f. 4.
- tetragona*. Stem square : leaves unarmed, hearted, 5-nerved, pointed.
North America. *Linn. suppl.* 427.
- D. Stem unarmed, round.
- lanceolata*. Leaves unarmed, lanceolate.
North America. *Catesby Carol.* 2. t. 48.

- Pseudo China*. Leaves unarmed: stem-leaves heart-shaped; those of the branches ovate-oblong, 5-nerved.
Jamaica, Virginia. *Sloan. Fem. 1. t. 143. f. 1.*
- Ripogonum purpurata*. Leaves ovate-lanceolate, pointed, 5-nerved: flowers hermaphrodite.
New Zealand. *Forst. Char. gen. t. 25. Ripogonum.*
Stem forked: leaves hearted, pointed, clawed, quite entire, 5-nerved: peduncles axillary, umbelliferous.
New Caledonia. *Forst. prodr. n. 373.*
- canellæfolia*. Leaves unarmed, ovate, 3-nerved.
Jamaica. *Pluk. phyt. tab. 110. f. 4.*
- humilis*. Leaves unarmed, ovate, hearted, 3-nerved: flowers corymbed.
Carolina. *Mart. Mill. Dict. n. 22. Catesby Carol. 1. 47.*
- hederæfolia*. Leaves unarmed: stem-leaves heart-shaped: racemes ovate-oblong.
Jamaica, Maryland. *Pluk. phyt. t. 225. f. 3.*
1790. DIOSCOREA. *Calyx* 6-parted *corol* 0.
Fem. Styles 3: *capsule* 3-celled, compressed: *seeds* 2, membranaceous.
- pentaphylla*. Leaves in finger-like divisions.
East Indies. *Rumph. 5. t. 127. Rheed. Mal. 7. t. 35.*
- triphylla*. Leaves ternate.
Malabar. *Rumph. 5. t. 128. Rheed. Mal. 7. t. 33.*
- trifida*. Leaves heart-shaped, 3 cleft.
Surinam. *Stem* winged, bearing tubers.
- aculeata*. Leaves heart-shaped: stem prickly, bearing bulbs.
Malaba. *Rumph. 5. t. 126. Rheed. Mal. 7. t. 37.*
- alata*. Leaves heart-shaped: stem winged, bearing bulbs.
Indies. *Rumph. 5. t. 120—123. Rheed. Mal. 7. t. 38.*
- bulbifera*. Leaves heart-shaped: stem even, bearing bulbs.
Indies. *Rumph. 5. t. 154. Rheed. Mal. 7. t. 36.*
- fatiwa*. Leaves heart-shaped, alternate: stem not winged, round. *Yam*
Indies. *Rumph. 5. t. 180. Rheed. Mal. 8. t. 51.*
- villosa*. Leaves heart-shaped, alternate and opposite: stem not winged.
Indies. *Rumph. 5. t. 162? Rheed. Mal. 8. t. 51.*
- oppositifolia*. Leaves opposite, ovate, pointed.
India. *Rumph. 5. t. 122. Pet. gaz. t. 36. f. 6.*
- septemloba*. Leaves heart-shaped, 7-lobed, 7-nerved.
Japan. *Thunb. Jap. 149.*

- quinqueloba* Leaves heart-shaped, 5-lobed, 9-nerved.
Japan. *Kæmpf ic. select. t. 15.*
- japonica.* Leaves heart-shaped, pointed, 9-nerved.
Japan. *Thunb. Jap. 151.*
- bastata.* Leaves halbert-shaped: stem even: racemes long.
India. *Mart. Mill Diet. n 2.* Racemes very long.
- eburina.* Leaves heart-shaped, 7-leaved, alternate: flowers herma-
phrodite, in simple long racemes.
India. *Rheed. Mal. 7. t. 50.*
- cirrhusa.* Leaves ovate-lanceolate, 3-nerved: flowers hermaphrodite,
triandrous: stem tendrilled.
Cochinchina. *Lour. Cochinch. 625.*

1791. RAJANA. *Calyx* 6-parted: *corol* 0.

Fem. *Styles* 3: fruit inferior, roundish, with an oblique wing.

- bastata.* Leaves halbert-shaped.
Domingo. *Plum. Amer. t. 98. Fil. t. 178.*
- cordata.* Leaves heart-shaped, 7-nerved.
South America. *Plum. ic. 155. f. 1.*
- angustifolia* Leaves linear-lanceolate, rounded at the base.
Hispaniola. *Savartx. prodr. 59. Flor. ind. occ. 639.*
- ovata.* Leaves ovate, pointed, 3-nerved.
Domingo. *Forst. prodr. 59. Flor. ind. occ. 638.*
- quinquefolia* Leaves in fives, ovate-oblong.
America. *Plum. ic. 155. f. 2.*
- quinata.* Leaves quinate; leaflets emarginate: flowers in axillary umbels.
Japan. *Thunb. Jap. 148.*
- hexaphylla.* Leaflets oblong, acute, serrate: flowers racemed.
Japan. *Thunb. Jap. 149.* Leaflets generally 6.

1792. MAURITIA. Male an oblong sessile ament:
calyx 1-leaved, cup-shaped, entire: *corol* 1-petalled,
with a short tube and 3-parted border: *filaments*
inserted in the throat of the tube. Fem.—

flexuosa.

Mauritia.

Surinam. Tree nearly leafless: *branches* flexuous, terminating in clasping sheaths, with a cup-shaped knee-joint: *aments* axillary, cone-like.

1793. ELÆIS. Male. *Calyx* 6-leaved: *corol* 6-cleft.
Fem. *Calyx* 6-leaved: *corol* 6-petalled: *stigmata* 3:
drupe fibrous: *nut* 1, valveless.

guineensis. Elæis.

West Indies. *Sloan. Jam. t. 124. Jacq. Amer. t. 172.*

Palm with pinnate fronds: *spadix* axillary.

1794. BORASSUS. *Calyx* a spathe: *spadix* ammentaceous, imbricate: *corol* 3-parted.

Fem. *Styles* 3. *drupe* 3-celled, 3-seeded. *Fan palm.*

habellifer- Borassus.

mis.

East Indies. *Rumph. 1. t. 10. Reed. Mal. 1. t. 9, 10.*

Palm with leaves folded like a fan and cut at the edges.

ORDER VII. OCTANDRIA.

1795. POPULUS. *Calyx* a lacerated scale of the ament: *corol* turbinate, oblique, entire.

Fem. *Stigmata* 4: *capsule* superior, 2-celled, 2-valved: *seeds* clothed with down. *Poplar.*

**alba.* Leaves heart-roundish, lobed, toothed, white-downy underneath: aments ovate.

Woods. *Black. t. 548. Dubam. arb. t. 36.*

**canescens.* Leaves roundish, angular-repand, toothed, hoary-downy underneath: aments cylindrical, lax.

Watery places. *Mill. illust. t. 90 l. nigra.*

**tremula.* Leaves nearly orbicular, toothed, glabrous both sides; petioles compressed: branchlets hairy. *Aspen.*

Woods. *Blackw. t. 248. Lob. ic. 2. 194. 2.*

**nigra.* Leaves deltoid, pointed, serrate, glabrous both sides.

Watery places. *Blackw. t. 248. 1. Lob. ic. 2. 194. 1.*

dilatata. Leaves deltoid, pointed, serrate, glabrous both sides, wider than they are long. *Lombardy poplar.*

Lombardy. Aiton. Hort. Kew. 3. p. 406.

balsamifera Leaves ovate, serrate, whitish underneath: stipules gummy.

Tacamahac.

America, Siberia. *Mill. fig. t. 261. Gmel. Sib. 1. t. 33.*

candicans. Leaves heart shaped, pointed, whitish beneath.

Canada. *Aiton. Kew. 3. p. 406.*

monilifera. Leaves somewhat heart-shaped, with cartilaginous hooked and somewhat hairy serratures; nerves spreading: petioles compressed: branches round.

Canada. *Abbot. ins. Georg. t. 71.*

laevigata. Leaves heart-shaped, 3-nerved; glabrous, glandular at the base, unequally serrate: petioles compressed; branches round.

North America. *Aiton. Kew.* 3. p. 406.

græca. Leaves heart-shaped, glabrous, glandular at the base, remotely crenate: petioles compressed: branches round.

Achipelago. *Aiton. Kew.* 3. p. 497.

heterophylla. Leaves heart-shaped; the younger-ones pubescent and without glands at the base: petioles nearly round: branches round.

North America. *Sp. pl.* 1464.

angulata. Leaves heart-shaped, glabrous: branches with winged angles. Carolina. *Catesby Car.* 1. t. 34. *Dubam. arb.* 2. t. 39. f. 9.

1796. RHODIOLA. *Calyx* 4-parted: *petals* 4: *nectaries* 4, emarginate.

Fem. *Pistils* 4; *capsules* 4, many seeded.

Rhodiola. *Rose-root.*

Alpine rocks. *Eng. Bot.* t. 508. *Flor. Dan.* t. 183.

1797. MARGARITARIA. *Calyx* 4-toothed: *petals* 4.

Fem. *Styles* 4 or 5: *berry* cartilaginous, 4 or 5-grained.

Margaritaria.

Surinam. *Pluk. phyt.* t. 176. f. 4.

Male. Branches cross-armed, flexuous: leaves opposite: panicle of compound racemes. Fem. Branches and leaves alternate: peduncles axillary, 1-flowered.

ORDER VIII. EENEANDRIA.

1798. MERCURIALIS. *Calyx* 3-parted: *corolo.*

Male. *Stamina* 9—12: *antheræ* globular, twin.

Fem. *Styles* 2: *berry* 2-grained, 2-celled: *seeds* 1 in each cell. *Mercury.*

perennis. Stem quite simple: leaves rough: root creeping.

Hedges. *Curt. Lond. fasc.* 2. t. 65. *Mill. illust.* t. 91.

ambigua. Stem cross-armed: leaves nearly glabrous: flowers in whorls, monæcious.

Spain. *Reich. dec.* 1. 15, tab. 8.

annua. Stem cross-armed: leaves glabrous: flowers racemed: roots fibrous.

Wastes. *Eng. Bot.* t. 559. *Curt. Lond.* 5. t. 68.

tomentosa. Stem somewhat shrubby: leaves downy.

Spain. *Moris sect.* 5. t. 34. f. 5. 6.

afra. Stems prostrate, herbaceous: leaves ovate, somewhat downy: flowers androgynous.

The Cape. Leaves crowded at the joints, obtuse.

indica.

Stem shrubby, branched: leaves lanceolate, smooth: flowers with 3 styles.

Cochinchina, *Lour. Cochinch* 628.

1799. HYDROCHARIS. *Calyx* 3-cleft: *petals* 3.

Male. Three inner *filaments* appendaged.

Fem. *Styles* 6: *capsules* inferior, 6-celled, many seeded.

**Morus*
Rance

Hydrocharis.

Frog-bit.

Ditch. *Eng Bot.* t. 808. *Curt. Lond. fasc.* 3. t. 64.

ORDER IX. DECANDRIA.

1800. KIGGELARIA. *Calyx* 5-parted: *petals* 5, with 5 3-lobed glands.

Male. *Antherae* perforated at top.

Fem. *Styles* 5: *capsule* 1-celled, 5-valved, many seeded.

africana.

Kiggelaria.

The Cape. *Mill illust Pluk. phyt.* t. 176 f. 3.

Tree with a grey bark: leaves lanceolate, serrate, glabrous: seeds immersed in the pulp.

1801. CORIARIA. *Calyx* 5-leaved: *petals* 5, united to and resembling the calyx.

Male. *Antherae* 2 parted.

Fem. *Styles* 5: *seeds* 5, covered with the succulent berried petals.

Samach.

myrtifolia.

Leaves ovate-oblong.

South of Europe. *Angl. Hort.* t. 20. f. 1. *Rhus.*

ruscifolia.

Leaves heart ovate, sessile.

Chili. *Feuil. Peruv.* 3. 17. t. 12.

sarmentosa

Procumbent, diffuse: leaves heart-ovate, pointed, very entire, 5-nerved, slightly petioled: racemes axillary, long, nodding.

New Zealand. *Fors. flor. austral. n.* 337.

1802. SCHINUS. *Calyx* 5-cleft: *petals* 5.

Fem. *Style* 0: *stigmata* 3: *berry* 3-celled.

Molle.

Leaves pinnate; leaflets serrate, the terminal one long.

Peru. *Seba Mus.* 2. t. 5. f. 5. *Johns. dend.* t. 84. f. 1.

Aeira.

Leaves pinnate; leaflets quite entire, equal.

Brazil, Peru. *Feuil. Peruv.* 3. t. 30.

ORDER X. DOCEAFDRIA.

1803. EUCLEA. *Calyx* 4 or 5-toothed: *corol* 4 or 5-parted.

Male. *stamina* 12-15.

Fem. *Germ* superior: *styles* 2: *berry* 2-celled.

racemosa. Euclea.

The Cape. *Breyn. ic. t. 22. f. 3.*

Tree branching: leaves obovate, entire, obtuse, glabrous, perennial; racemes axillary, nodding.

1804. DATISCA. Male. Calyx 5-leaved: corol 0: antheræ 15. long, sessile.

Fem. Calyx 2-toothed: corol 0: styles 2: capsule inferior, 3-fided, 3-horned, 1 celled, pervious, many-seeded.

Bastard hemp,

cannabina. Stem smooth.

Canada. *Moris, hist. 3. sect. 11. t. 25. f. 3. 4.*

hirta. Stem rough with hairs.

Pennsylvania. *Sp. pl. 1469.*

1805. MENISPERMUM. Petals 4 exterior, 8 interior.

Male. Stamina 16.

Fem. Stam. 8, barren: berries 2, 1-seeded. Moon seed.

canadense. Leaves peltate, hearted, roundish angular.

Canada. *Mill. illust Pluk. phyt. t. 36. f. 2.*

virginicum. Upper-leaves undivided; lower-ones peltate, heart-shaped, lobed.

Virginia. *Dill. Elth. t. 178. f. 219.*

japonicum. Leaves peltate, rounded-ovate, entire:

Japan. *Thunb. Jap. 193.* Leaves with an obtuse point.

carolinum. Leaves heart-shaped, villous underneath.

Carolina. Stems herbaceous- leaves hairy.

Cocculus. Leaves heart-shaped, retuse, mucronate: stem jagged.

East Indies. *Blackw. t. 389. Rumph. Amb 5. t. 22.*

The berries are called *Cocculus indicus*, and are intoxicating.

crispum. Leaves heart-shaped: stem quadrangular, curled.

Bengal. *Sp. pl. 1468.*

acutum. Leaves heart-shaped, angular, pointed: stem round, striate.

Japan. *Thunb. Jap. 193.* Leaves glaucous beneath.

orbiculatum. Leaves orbicular, villous underneath.

East Indies. *Pluk. Amaltb. t. 384. f. 6.*

hirsutum. Branch-leaves ovate, stem-leaves heart-shaped, villous, downy underneath.

East Indies. *Pluk. Amaltb. t. 384. f. 7.*

edule. Leaves oblong, glabrous: flowers hexandrous.

Arabia. *Vahl symb. 1. 80. Forsk. descr. 171.*

myosotoides. Leaves linear-lanceolate, rough-haired.

East Indies. *Pluk. Amaltb. t. 384. f. 3.*

trilobum. Hairy, villous: leaves quite entire, acute with a long point: flowers hexandrous.

Japan. *Thunb. Jap. 194.*

1806. STRATIOTES. *Spathe* 2-leaved: *perianth* superior, 3 cleft: *petals* 3: *nectaries* 20, anther-shaped, in a ring.

Fem. *Styles* 6: *berry* inferior, 6-celled. *Water soldier*.

aloides. Leaves ensiform-triangular, with prickly serratures. Ditches. *Engl. Bot.* t. 379. *Mult. titub.* t. 50.

acroides. Leaves ensiform, flat, quite glabrous: *spathe* bearded at the point. Ceylon. *Rumph. Amb.* 6. t. 75. f. 2.

alimoides. Leaves heart-shaped. East Indies. *Rheed. Mal.* 11. t. 46.

ORDER XI. ICOSANDRIA.

1807. XYLOOMA. *Calyx* 4 or 5-parted: *corol* 0.

Male. *Stamina* numerous with an inferior nectary.

Fem. *Style* minute: *stigma* obcordate 3-cleft: *berry*? dry, 1 or 2-celled; the cells 2-seeded.

suaveolens. Leaves ovate, serrate. New South Wales. *Forst. gen.* t. 62. *Myroxylon*.

orbiculatum. Leaves nearly orbiculate, very entire. New Zealand. *Forst. flor. aust.* p. 72.

1808. HEDYCARYA. *Calyx* 8 or 10-cleft: *corol* 0.

Male. *Filaments* c: *antheræ* numerous, 4-grooved, bearded at top.

Fem. *Germ*s pedicelled: *stigmata* papillæ scattered over the germ: *nuts* pedicelled, 1-seeded.

dentata. Hedycarya. New Zealand, *Forst. Char. gen.* t. 64.

Shrub with oblong serrate, glabrous leaves: *racemes* axillary *calyx* hairy: *nuts* sweet.

1809. FLACOURTIA. Male. *Calyx* 5-parted: *corol* 0: *stamina* very numerous.

Fem. *Calyx* many-leaved: *corol* 0: *germ* superior: *style* 5—9: *berry* many-celled.

Ramontchi. Flacourtia.

Madagascar. *L'Herit. stirp. nov.* 59. t. 30.

Shrub thorny: *leaves* ovate, acute, serrate, shining: *racemes* terminal, erect: *petioles* pubescent, red.

ORDER XII. POLYANDRIA.

1810. PERULA. *Calyx* 2-leaved: *corol* 1-petalled.Male. *Germ*s 4, barren, on short pedicels.Fem. *Styl*s 1 to each germ: *capsule* pedicelled, drooping, 3-celled, 3-valved: *seeds* solitary.*arborea.*

Perula.

New Granada *Mutis. Aët. Holm.* 5. 299. t. 8.1811. CLIFFORTIA. *Calyx* 3-leaved, superior: *corolo*.Fem. *Styl*s 2: *capsule* 2-celled: *seeds* solitary.

These are all shrubs from the Cape of Good hope,

A. *Leaves simple.**runeata.*

Leaves wedge-form, serrate at top.

odorata.

Leaves ovate, serrate, ribbed, villous underneath.

ilicifolia.

Leaves somewhat heart-shaped, toothed.

Hort. Cliff. t. 30. *Mill. illust. Dill. elik.* t. 31. f. 35.*ruscifolia.*

Leaves lanceolate, very entire.

Hort. Cliff. t. 31. *Pluk. Alm.* t. 297. f. 2.*ferruginea.*

Leaves lanceolate, with setaceous serratures.

graminea.

Leaves ensiform, serrulate: petioles dilated, terminated by 2 stipule-like awns.

polygonifolia.

Leaves linear hairy.

Hort. Cliff. 501. t. 32.*filifolia.*

Leaves filiform, 3-sided, glabrous, very entire.

B. *Leaves compound.**crenata.*

Leaves binate, orbicular, crenate.

pulchella.

Leaves binate, orbicular, very entire.

trifoliata.

Leaves ternate; the middle-one 3-toothed.

Pluk. Alm. t. 319. f. 4.*sarmentosa.*

Leaves ternate, villous.

strobilifera.

Leaves ternate: linear, acute, smooth.

Pluk. Alm. t. 275. f. 2.*obcordata.*

Leaves ternate; leaflets roundish; the middle-one inversely heart-shaped.

ternata.

Leaves ternate; leaflets entire, hairy.

juniperina.

Leaves ternate, 3-sided, subulate, crowded.

falcata.

Leaves ternate, linear, falcate, glabrous.

teretifolia.

Leaves fascicled, columnar, subulate, incurved, glabrous, entire.

ericæfolia.

Leaves fascicled, columnar, channelled, glabrous.

1812. CYCAS. Male. *Ament* cone-like, the scales covered every where underneath with pollen.Fem. *Spadix* sword-shaped: *germs* immersed in the angles, solitary: *style* 1: *drupe* with a woody nut.

- circinalis*. Fronds pinnate; leaflets linear, flat.
East Indies. *Ram. b.* 1. t. 22, 23. *Rheed.* 3. t. 13—21.
- revoluta*. Fronds pinnate; leaflets revolute at the margin.
China, Japan. *Linn. Trans.* 6. p. 312. t. 29. 30.
1813. *ZAMIA*. Male. *Ament* cone-like, the scales covered underneath with pollen.
Fem. *Ament.* cone-like, with scales at each margin; berry solitary.
- furfuracea*. Leaflets wedge-form, straight, quite glabrous; serrate from the middle upwards, brassy underneath; stalk spinous.
West Indies. *Pluk. alm.* t. 103. f. 2. t. 309. f. 5.
- integrifolia*. Leaflets nearly entire, rather obtuse, unarmed, straight, shining; stalk unarmed.
Florida. *Z. pumila*. *Sp. pl.* 1659.
- debilis*. Leaflets linear, unarmed, serrulate at top, spreading and recurved, longer than the channelled midrib; stalk 3-fided, compressed; unarmed.
West Indies. *Comm. hort.* 1. 111. t. 58.
- Cycadis*. Leaflets oblique, linear-lanceolate, subulate, hairy curved, with 1-3 spines at top; stalk unarmed.
The Cape. *Thunb. Atl. Ups.* 2. p. 28; t. 5.
- pungens*. Leaflets subulate, spreading, stiff, rigid, mucronate, rounded at the base of the outer margin; stalk roundish, unarmed.
The Cape. *Till. pis.* 129. t. 45.

ORDER XIII. MONADELPHIA.

1814. *JUNIPERUS*. Male. *Calyx* the scales of an ament: *corol* 0: *stigmata* 3.
Fem. *Calyx* scales of an ament, fewer, becoming fleshy, uniting into a 3-seeded berry. *Juniper.*
- strobilifera*. Leaves imbricate in 4 rows, acute.
South of Europe. *Berries* large, black when ripe.
- barbatenfis*. All the leaves imbricate in 4 rows; younger-ones ovate, older-ones acute.
West Indies. *Hort. Angl.* t. 1. f. 1. *Pluk. phyt.* t. 197. f. 4.
- bermudiana*. Lower-leaves in threes, upper-ones in pairs, decurrent, subulate, spreading, acute.
Bermudas. *Herm. Ludgb.* t. 374.
- chinesis*. Leaves decurrent, imbricate and spreading, clustered; stem-leaves in threes, branch-leaves in fours.
China. *Leaves* subulate, hardish, thick.
- Sabina*. Leaves opposite, erect, decurrent; the oppositions closed.
South of Europe. *Woodv.* t. 946. *Blackw.* t. 241.

virginiana. Leaves in threes, fixed by the base; the younger-ones imbricate, older-ones spreading. *Red Cedar*.

North America. *Sloan. Jam. 2. t. 157. f. 3.*

• *communis*. Leaves in threes, spreading, spinous-mucronate, longer than the berries.

Mountains. *Engl. Bot. t. 1100. Woodv. t. 95. Bl. t. 187.*

Oxycedrus. Leaves in threes, spreading, mucronate, shorter than the berries.

South of Europe. *Dubam. Arb. 2. tab. 128.*

phænicea. Leaves in three ovate; convex; obtuse, imbricate, very minute.

South of Europe. *Pall. Ross. 1. 2. tab. 57.*

lycia. Leaves in threes, every where imbricate, ovate, obtuse.

South of Europe. *Woodv. t. 206. Pall. Ross. 1. t. 56 f. 1.*

drupacea. Leaves in threes, spreading, acute; 3 times shorter than the berries: nut 3-celled.

Syria. *Billard. ic. Syr. 2. 14. tab. 8.*

aurica. Leaves opposite, acute, imbricately decurrent; spreading, subulate.

Siberia. *Pall. Ross. 1. 2. 13. tab. 55.*

1815. ARAUCARIA. Male. *Calyx* scales of an ament, terminated by a leaflet: *corol* 0: *antherae* 10 or 12, without filaments.

Fem. *Calyx* an ament with many germs: *corol* 0: *stigma* 2-valved, unequal: *seeds* numerous, in a roundish cone.

chilensis. *Araucaria*. *Fuss. Gen. 413.*

Dombeya chilensis. *Lin. gen. Schreb. n. 1551.*

Chili. Tree resinous: leaves sessile, oval, pointed, glabrous, entire, coriaceous: aments solitary, terminal.

1816. TAXUS. Male. *Calyx* 0: *corol* 0: *stamina* numerous: *antherae* peltate, 8-cleft.

Fem. *Calyx* cup-shaped, entire: *style* 0: *seed* 1: imbedded in the berried calyx. *Yew tree*.

• *baccata*. Leaves linear, approximate, male receptacles nearly globular. *Woods. Eng. Bot. t. 764. Blackw. t. 572.*

elongata. Leaves linear-lanceolate: male receptacles filiform-cylindrical, ament-like: *antheræ* very numerous, spirally united.

The Cape. *Aiton. Hort. kew. 3. p. 415.*

nucifera. Leaves linear, distant.

Japan. *Kämpf. amæn. tab. 815.*

macrophylla. Leaves foliata, lanceolate, remote.

Japan. *Kämpf. ic. select. tab. 24.*

verticillata Leaves in whorls, linear, falcate.

Japan. *Thunb. Jap.* 276.

1817. EPHEDRA. Male. *Calyx* of the ament 2-cleft: *corol* 0: *stamina* 7: *antheræ* 4 inferior, 3 superior.

Fem. *Calyx* 2-parted, 5-fold: *corol* 0: *pistils* 2: *seeds* 2, covered with the berried calyx.

distachya. Peduncles opposite: aments in pairs.

Sea-grape.

South of Europe. *Dubam. arb.* 1. 220. *tab.* 92.

monostachya Peduncles many: aments solitary.

Horse-tail.

Siberia, *Gmel. Sib.* 1. t. 38. f. 1. *Pall. Ross. tab.* 83.

1818. CISSAMPELOS. Male. *Calyx* 4-leaved: *corol* 0: *nectary* wheel-shaped: *stamina* 4.

Fem. *Calyx* 1-leaved, ligulate-roundish: *corol* 0: *styles* 3: *berry* 1-seeded.

Pereira. Leaves peltate, heart-shaped, emarginate and entire.

West Indies. *Plum. Amer.* 1. 93. *Clematis*.

Caapeba. Leaves petioled at the base, entire.

Jamaica. *Plum. gen.* 33. *ic.* 67. f. 2.

smilacina Leaves heart-shaped, acute, angular.

Jamaica, Carolina. *Catesby Corol.* 1. t. 51.

fruticosa Stem erect, shrubby: leaves ovate, petioled, entire.

The Cape. *Linn. suppl.* 432.

capensis. Stem twining: leaves ovate, obtuse, petioled, entire.

The Cape. *Linn. suppl.* 432.

1819. DRYANDRA. *Calyx* 2-leaved: *petals* 5: *stamina* 9: fruit 3 or 4-grained: *seeds* solitary.

cordata. Dryandra.

Japan. *Kämpf. ic. select.* t. 23.

Stem arboreous: *leaves* at the ends of the twigs, hearted entire, glabrous: *panicle* spreading: *flowers* yellow.

1820. NAPÆA. *Calyx* 5-cleft: *petals* 5.

Male. *Stamina* numerous: *styles* numerous, barren.

Fem. *Stamina* numerous, barren: *styles* numerous, longer than the *stamina*: *capsule* depressed, 10-celled: *seeds* solitary.

lewis. Peduncles naked, smooth: leaves lobed, glabrous.

Virginia. *Herm. Ludgb. tab.* 23. *Malva*.

stabra. Peduncles involucre, angular: leaves palmate, rough.

Virginia. *Ehret. pict.* t. 7. 8.

1821. NEPENTHES. *Calyx* 4-parted: *corol* 0.

Male. *Filament* 1: with many *antheræ* united into a peltate head.

Fem. *Style* 0: *stigma* peltate, 4-lobed: *capsule* 4-celled *seeds* numerous, coated.

distillatoria Nepenthes.Ceylon. — *Burm. Zeyl. t. 17. Rumph. Amb. t. 59. f. 2.*

Plant with a fungous stalk: leaves sessile, oblong, glabrous, ending in a tendril, to which hangs a long cylindrical hollow receptacle yielding a sweet limpid liquor: flowers spiked.

1822. ADELIA. Male. *Calyx* 3-parted: *corol* 0: *stamina* numerous, united at the base.Fem. *Calyx* 5-parted: *corol* 0: *styles* 3, lacerated: *capsule* 3-grained.*Bernardia*. Leaves oblong, downy, ferrate.Jamaica. *Brown. Jam. 361. n. 1. Bernardia.**Ricinella*. Leaves obovate, very entire.Jamaica. *Brown. Jam. 361. n. 2.**Acidoton*. Branches flexuous: spines gemmaceous.Jamaica. *Brown Jam. 355.*

ORDER XIV. GYNANDRIA.

1823. CLUYTIA. *Calyx* 5-leaved: *petals* 5.Male. *Stamina* 5, on the middle of the style.Fem. *Styles* 3: *capsules* 3-celled: *seeds* solitary.*alaternoides*. Leaves nearly sessile, linear-lanceolate: flowers solitary, erect.The Cape. *Comm. hort. 2. t. 2. Pluk. pbyt. 230. f. 1.**polygonoides*. Leaves lanceolate: flowers axillary, numerous.The Cape. *Burm. Afr. tab. 43. f. 3. Chamælea.**pulchella*. Leaves ovate, very entire: flowers lateral.The Cape. *Mill. illust. Comm. hort. 1. t. 91.**hirta*. Leaves wedge-form, glabrous: flowers lateral, clustered, rough haired.The Cape. *Vabl. symb. 2. 101. Leaves entire.**tomentosa*. Leaves elliptic, downy both sides.The Cape. *Leaves crowded, sessile.**Eluteria*. Leaves heart-lanceolate.Indies. *Woodv. t. 211. Lower-leaves elliptic.*This is said to produce the true *Cascarilla*.*retusa*. Leaves oval, retuse: flowers, racemed, axillary.East Indies. *Rheed. Mal. 2. t. 18.**stipularis*. Leaves oval, downy underneath.East Indies. *Branches flexuous, downy.**acuminata*. Herbaceous: leaves ovate, glabrous, obtuse with a point: flowers axillary, solitary.The Cape. *Linn. suppl. 432.**lanceolata*. Leaves elliptic-lanceolate: flowers lateral, downy.Egypt. *Vabl. symb. 2. 101. Fersk. Æg. 170.**Branches* purple, villous at top: *leaves* not dotted underneath: *capsules* not dotted.

CLASS XXIII. POLYGAMIA.

Hermaphrodite flowers, and male or female, or both, on the same or distinct plants.

ORDER I. MONÆCIA.

1824. *MUSA.*

Spathe partial, many-flowered: *corol* 2-petalled; one of them erect, 5-toothed: the other nectariferous, concave, shorter: *stamina* 6: *style* 1: flowers all hermaphrodite.

Male above: 5 filaments perfect: germ inferior, abortive.

Fem. 1 Filament perfect: berry inferior, oblong, 3-sided, many-seeded.

1826. *ANTHISTERIA.*

Calyx, glume 4-valved, 3 or 4 flowered: *corol* glume 2-valved: *styles* 2, clavate: seed 1.

1827. *HOLCUS.*

Herm. *Calyx*, glume 1 or 2-flowered: *corol*, glume awned: *stamina* 3 *styles* 2: seed 1.

Male. *Calyx*, glume 2-valved: *corol* 0: *stamina* 3.

1828. *CYMBANCHE.*

Inflorescence half spiked.

Herm. *Calyx* 2-glumed, 1-flowered, parallel to the rachis; outer-valve linear, the opposite one boat-shaped.

Fem. *Calyx* 1-glumed, ovate, opposite the rachis.

1831. *CHLORIS.*

Herm. *Calyx*, glume 2-flowered: *corol*, glume awned at the base: *stamina* 3: *styles* 2: seed 1.

Male. *Corol* awnless: *stamina* 3.

1832. *ANDROPOGON.*

Herm. *Calyx*, glume 1-flowered: *corol*, glume awned at the base: *stamina* 3: *styles* 3: seed 1.

Male. *Calyx* awnless: *stamina* 3.

1833. *ISCHÆMUM.*

Herm. *Calyx*, glume 2-flowered: *corol* 2-valved: *stamina* 3: *styles* 3: seed 1.

Male. *Stamina* 3.

1834. *MANISURIS.*

Herm. *Calyx*, glume 2-valved, 1-flowered; the outer valve emarginate at the top and sides: *corol* less than the calyx: *stamina* 3: *style* cloven.

Male. *Florets* in the lower side of the same spike, standing more out.

1830. *ÆGILOPS*. Calyx, glume about 3-flowered, cartilaginous: corol, glume ending in a triple awn: stamina 3: styles 2; seed 1.
1829. *APLUDA*. Calyx, glume common, 2-valved: female florets sessile, male peduncled. Male. Calyx 0; corol 2-valved: stamina 3. Fem. Calyx 0: corol 2-valved: styles 1: seed 1, coated.
1835. *VALANTIA*. Herm. Calyx 0: corol 4-parted: stamina 4: style cloven: seed 1. Male. Calyx 0: corol 3 or 4-parted: stamina 4 or 3: pistil obsolete.
1842. *OPHIOXYLUM*. Herm. Calyx 5-cleft: corol 5-cleft, funnel-form: stamina 5: pistil 1. Male. Calyx cloven: corol 5-cleft, with a funnel-form mouth: nectary cylindrical: stamina 2.
1843. *COPROSMA*. Calyx 1-leafed, 5-toothed: corol 5 or 6-cleft: stamina 5 6 or 7. Herm. Styles 2, long: berry with 2 flattish seeds.
1848. *CELTIS*. Herm. Calyx 5-parted: corol 0: Stamina 5: styles 2: drupe 1-seeded. Male. Calyx 6-parted: corol 0: stamina 6.
1837. *ATRIPLEX*. Herm. Calyx 5-parted, inferior: corol 0: stamina 5: style 2-parted: seed 1, depressed. Fem. Calyx 2-leaved: corol 0: style 2-parted: seed 1, compressed.
1836. *PARIETARIA*. Herm. Calyx 4-cleft, inferior: corol 0: stamina 4: style 1: seed 1, covered with the elongated calyx. Fem. Stigmata 0.
1825. *VERATRUM*. Calyx 0: corol 6-parted: stamina 6. Herm. Pistils 3: capsule many-seeded, Male. Rudiment of a petal.
1838. *CURCULIGO*. Calyx 0: corol 6-petalled: filaments 6: pistil 1: capsule 0: seeds beaked.
1844. *FUSANUS*. Herm. Calyx 5-cleft. corol 0: stamina 4: germ inferior: stigmata 4: drupe. Male. Fruit abortive.
1845. *HYPELATE*. Calyx 5-leaved: corol 5-petalled: filaments 8: stigma bent down, 3-sided: drupe 1-seeded.

1846. ACER. Herm. *Calyx* 5-cleft : *corol* 5-petalled : *stamina* 8 or 10 : *germs* 2 or 3, superior : *capsules* 2 or 3, 1 feeded, terminated by wing:
Male. Without germ or style.
1847. AILANTHUS. Herm. *Calyx* 5-parted : *corol* 5-petalled : *stamina* 2 or 3 : *styles* lateral : *capsules* membranaceous, 1-feeded.
Male. *Stamina* 10.
Fem. *Germ*s 3 5.
1849. GOUANIA. Herm. *Calyx* 5-cleft : *corol* 0 : *antheræ* 5, covered with a veil : *style* 3-cleft : *fruit* inferior, tripartite.
Male Without germ and stigma.
1851. MIMOSA. *Calyx* 5-toothed : *corol* 5-clef : *stamina* 5 or more : *pistil* 1 : *legume*.
1840. BRABEIIUM. Herm. *Calyx* scales of the ament : *corol* 4-parted, revolute above : *stamina* 4 : *pistil* 1. *drupe* roundish : *seed* globular.
Male. *Calyx* scales of the ament : *corol* 4 or 5 parted : *stamina* 4, inserted in the throat : *style* cloven, abortive.
1839. TERMINALIA. *Calyx* 5-parted : *corol* 0 : *stamina* 10.
Herm. *Style* 1 : *drupe* inferior, boat-shaped.
1841. CLUSIA, Male. *Calyx* 4 or 6-leaved ; the leafets opposite, imbricate : *corol* 4 or 6-petalled : *stamina* numerous
Fem. *Nectary* formed of the united *antheræ*, including the germ : *capsule* 5-celled, 5-valved, filled with pulp.
1850. HERMAS. Herm. *Umbel* terminal : *involucres* universal and partial : *umbellets* with truncate rays, the central one floriferous : *petals* 5 : *stamina* 5, barren : *seeds* in pairs, nearly orbicular.
Male. *Umbels* lateral : *involucres* universal and partial : *umbellets* many-flowered : *petals* 5 : *stamina* 5, fertile.

* *Esculus*. *Mammea*. *Jacquinia*. *Euphorbia*. *Melothria*. *Ilex* : *Valantia cruciata*.

ORDER II. DICECIA.

1861. PANAX. Herm. *Umbel*. *Calyx* 5-toothed, superior : *corol* 5-petalled : *stamina* 5 : *styles* 2 : *berry* 2-feeded.
Male. *Umbel*. *Calyx* entire : *petals* 5 : *stamina* 5.

1860. *ARCTOPUS*. Umbels compound: *involucres* 5-leaved: *petals* 5: *stamina* 5: *pistils* 2, abortive.
 Androg. Umbel simple: *involucre* 4-parted, spinous, containing numerous male-florets in the disk, and 4 females in the ray.
 Male. *Petals* 5: *stamina* 5.
 Fem. *Petals* 5: *styles* 2: *seed* 1, 2-celled, inferior.
1855. *DIOSPYROS*. *Calyx* 4-cleft: *corol* cup-shaped, 4-cleft: *stamina* 8. *style* 4-cleft: *berry* 8-seeded.
1862. *SPINIFEX*. *Calyx*, glume 2-valved, 1-flowered; the valves parallel with the rachis: *corol*, glume 2-valved, awnless: *stamina* 3: *styles* 2.
1863. *CHRYSTRIX*. Herm. *Calyx*, glume 2-valved: *corol* of numerous setaceous chaffs: *stamina* numerous, solitary, between the chaffs: *pistil* 1.
 Male. *Pistil* 0.
1858. *STILBE*. Herm. *Outer-calyx* 3-leaved, inner 5-toothed, cartilaginous: *corol* funnel-form, 5-cleft: *stamina* 4: *seed* 1, invested with the inner calyx.
 Male. *Inner-calyx* 0: *fruit* 0.
1859. *PENNANTIA*. *Calyx* 0: *corol* 5-petalled: *stamina* 5: *pericarp* 3-fided, 2-celled: *seeds* solitary.
1856. *NYSSA*. Herm. *Calyx* 5-parted: *corol* 0: *stamina* 5: *pistil* 1: *drupe* inferior.
 Male. *Stamina* 10.
1857. *CARICA*. Herm. *Calyx* 5-toothed: *corol* 5-parted: *stamina* 10: *stigmata* 5: *berry* 1-celled, many-seeded.
 Male. *Corol* funnel-form, 5-parted: *filaments* in the tube of the corol, alternately shorter.
1854. *FRAXINUS*. Herm. *Calyx* 0, or 4-parted: *corol* 0, or 4-petalled: *stamina* 2: *pistil* 1: *capsule* 2-celled, flat: *seeds* mostly solitary, pendulous.
 Fem. *Pistil* 1, lanceolate.
1852. *GLEDITSIA*. Herm. *Calyx* 4 cleft: *corol* 4 petalled: *stamina* 6: *pistil* 1: *legume*.
 Male. *Calyx* 3-leaved: *petals* 3: *stamina* 6.
 Fem. *Calyx* 5-leaved: *petals* 5: *pistil* 1: *legume*.

1853. BURSERIA. Herm. *Calyx* 3-leaved : *petals* 3 : *capsule* fleshy, 3-valved, 1-seeded.
Male. *Calyx* 5-toothed : *petals* 5 : *stamina* 5-10.
1864. CHAMÆROPS. *Calyx* 3-parted : *petals* 3 : *stamina* 6 : *pistils* 3 : *drupes* 3, 1-seeded.
1865. RHAPIS. *Calyx* 3-cleft : *corol* 3-cleft : *stamina* 6 : *pistil* 1.

† *Ilex Aquifolium*, *Rhamnus Alaternus*, *Gaillardina*.

ORDER III. TRICECIA.

1866. BREYNIA. Herm. *Calyx* 6-parted : *corol* 0 : *antheræ* 5, linear, attached to the style : *berry* 3-celled : *seeds* 2.
Male. *Calyx* 5-parted : *filaments* 3 : *antheræ* roundish.
Fem. *Stigmata* 5, inversely heart-shaped, petal-like, without style : *capsules* 5-celled : *seeds* solitary.
- 1867 CERATONIA. Herm. *Calyx* 5-parted : *corol* 0 : *stamina* 5 : *style* filiform : *legume* coriaceous, many-seeded.
Males and females on distinct plants.
Receptacle common, turbinate, fleshy, connivent, concealing the florets in the same or a distinct plant.
1868. FICUS. Male. *Calyx* 3-parted : *corol* 0 : *stamina* 3.
Fem. *Calyx* 5-parted : *corol* 0 : *pistil* 1 : *seed* 1.

ORDER I. MONŒCIA.

1824. MUSA. Herm. *Spathe* partial, many-flowered: *corol* 2-petalled; one of them erect, 5-toothed; the other nectariferous, concave, and shorter: *stamina* 6: *style* 1.

Male above; 5 *filaments* perfect: *germ* inferior, abortive.
Fem. 1 *filament* perfect: *berry* inferior, oblong, 3-sided, many seeded.

paradisiaca Spadix nodding: males permanent. *Plaintain-tree*,
Indies. Linn. Mus. 1. t. 1. *Trew.* *Ehret.* t. 18—20.
Sapientium. Spadix nodding: males deciduous. *Banana-tree*.
Indies. *Trew.* *Ehret.* 4 t. 21, 22, 23.
Troglodyta Spadix erect: spathes deciduous.
rum. Molucca islands. *Rumph.* *Amb.* 5. 137. t. 61.

1825. VERATRUM. *Calyx* 0: *petals* 6: *stamina* 7.

Herm. *Pistils* 3: *capsules* 3, many-seeded.

Male. Rudiment of a *pistil*.

album. Raceme more than decomposed; the divisions spiked: *corols* erect. *White Hellebore*.

Europe. *Woodv.* t. 100. *Blackw.* t. 74. *Mill. illust.*

viride. Raceme more than decomposed: *corols* bell-shaped; the claws thickened at the side within.

North America. *Aiton.* *Hort. Kew.* 3. p. 422.

nigrum. Raceme compound: *corols* much spread.

Austria, Siberia. *Jacq. Austr.* 4. t. 336.

lateum. Raceme quite simple: leaves sessile.

North America. *Flowers* spiked, yellowish.

1826. ANTHISTERIA. Herm. *florets* sessile, male-florets pedicelled.

Calyx, glume 4-valved, 3 or 4-flowered, coriaceous: *corol*, glume 2-valved, awnless: *filaments* 3: *styles* 2: *stigmata* clavate: *seed* 1.

ciliata. Anthisteria.

Culm. branched, jointed, glabrous: *leaves* alternate, ciliate towards the sheath: *raceme* terminal; leafy.

1827. HOLCUS. Herm. *Calyx*, glume 2-valved, 1 or 2-flowered: *corol* glume 2-valved, awned: *stamina* 3: *styles* 2: *seed* 1.

Male. *Calyx*, glume 2-valved: *corol* 0: *stamina* 3.

Soft-grass.

- spicatus.* Glumes 2-flowered, awnless: flowers in pairs, involucred pencilled: spike ovate-oblong.
East Indies. *Culm* and *leaves* bristly.
- bicolor.* Glumes glabrous, black: seeds globular, white, awned.
Persia. Probably a variety of *H. Sorghum*.
- Sorghum.* Glumes villous: seeds compressed, awned. *Millet.*
India. *Best. syst. Autum.* 2. t. 13. f. 2.
This produces the true culinary *Millet-seed*.
- halepensis* Glumes glabrous: hermaphrodite flowers awnless; females awned.
Syria. *Schreb. gram.* t. 18. *Scheuch. gram.* t. 11.
- nitidus.* Glumes 1-flowered, villous: flowers all awnless.
East Indies. *Vahl. symb.* 2. p. 102.
- saccharatus* Glumes villous: seeds all awned.
India. *Act. Helv.* 8. 119. t. 4. f. 1.
- *mollis.* Glumes partly naked: hermaphrodite floret awnless, male with a sharply bent awn: root creeping.
Hedges. *Eng. Bot.* t. 1170. *Curt. Lond. fasc.* 5. t. 8.
- *laxatus.* Glumes villous: hermaphrodite floret awnless: male with an arched recurved awn.
Pastures. *Eng. Bot.* t. 1169. *Curt. Lond. fasc.* 4. t. 11.
- laxus.* Glumes 1-flowered, smooth, awnless, pointed: panicle filiform, weak.
Virginia. *Panicle* little branched, rather nodding.
- striatus.* Glumes 2-flowered, striate, awnless, pointed: panicle crowded, oblong.
Virginia. *Calyx* 1-leaved, very small.
- ferratus.* Glumes 2-flowered, pubescent, awnless: leaves ferrate.
The Cape. *Thunb. prodr.* 26. Raceme compound, narrow.
- odoratus.* Glumes 3-flowered, awnless, pointed: hermaphrodite flower with 2 stamina.
Canada, North of Europe. *Loes. Prusj.* 111. t. 26.
- redolens.* Glumes 3 flowered; lateral-florets male, awned, hairy at the edge; middle one mostly hermaphrodite, awnless.
Terra del fuego. *Vahl. symb.* 2. 102.
- latifolius.* Glumes 3 flowered; the first floret unarmed, the other prickly at the edge: leaves subovate.
China. *Flowers* alternate, solitary.
- pertusus.* Spikes digitate: outer-valves of the glumes perforated on the middle.
East Indies. *Spikes* 5, linear, equal, pedicelled-

1828. CYMBANCHE. *Inflorescence* half spiked.
Herm. *Calyx* 2-glumed, 1-flowered, parallel to the rachis; outer-valve linear, inner-one boat-shaped.
Fem. *Calyx* 1-glumed, ovate, opposite the rachis.

ciliata.

Cymbanche.

Bengal. *Retz. obs.* 6. 36.

Culms simple or branched: *leaves* ciliate on the edge; *sheath* truncate, ciliate: *spikes* 2, terminal.

1829. APLUDA. *Calyx* glume common, 2-valved: *female-floret* sessile. *male* peduncled.

Male. *Calyx* 0; *corol* 2-valved: *stamina* 3.

Fem. *Calyx* 0: *corol* 2-valved: *styles* 1: *seed* 1, coated.

mutica.

Leaves lanceolate: flowers all awnless.

India. *Leaves* tapering towards the sheath.

aristata.

Leaves lanceolate: male-flowers awnless, one at the end sessile and awned.

India. *Leaves* rough, petioled.

Zeugites.

Leaves ovate: male-flowers awnless, one at the end sessile and awned.

Jamaica. *Brown. Jam.* 341. *tab.* 4. *f.* 3.

digitata.

Spikes digitate: flowers pointing one way.

East Indies, *Linn. suppl.* 434.

1830. ÆGILOPS. Herm. *Calyx*, glume about 3-flowered, cartilaginous: *corol*, glume ending in a triple awn: *stamina* 3: *styles* 2: *seed* 1.

Male. *Stamina* 3.

ovata.

Spike awned: all the calyxes 3-awned.

South of Europe. *Camer. epit.* 928. *f.* 2.

caudata.

Spike awned: all the calyxes 2-awned.

Crete. *Glumes*, except the last, all 2-toothed.

triuncialis.

Spike awned: lower calyxes 2-awned.

South of Europe. *Schreb. gram.* 80. *t.* 10. *f.* 1.

squarrosa.

Spike subulate, longer than the awns.

Levant, Spain. *Cavan. ic. t.* 90. *f.* 2.

1831. CHLORIS. Herm. *Calyx*, glume 2-valved, 2-flowered, awned: *corol* 0: *stamina* 3: *styles* 2: *seed* 1.

Male. *Calyx*, glume 1-valved.

Fem. sessile. *Calyx*, glume 2-valved.

cruciata.

Spikes about 4, cruciate: florets pointed.

Jamaica. *Sloan. Jam.* 1. *t.* 69. *f.* 1.

ciliata.

Spikes digitate about 5: glumes ciliate on the edge.

West Indies. *Swartz. prodr.* 25.

petraea.

Spikes about 4 stiff, nearly erect: spikelets crowded, glabrous, awnless: culm compressed.

West Indies. *Swartz. prodr.* 25.

1644. POLYAGMIA. MONŒCIA. 1832. Andropogon.

polydactyla. Spikes numerous, fascicled, lax: glumes ciliate-villous on the the margin.

Jamaica. *Sloan. Jam. 1. t. 69. f. 2.*

radiata. Spikes numerous, fascicled, nearly erect: florets subulate, glabrous.

Jamaica. *Sloan. Jam. 1. t. 68. f. 3.*

1832. ANDROPOGON. Herm. *Calyx*, glume 2-valved, 1 flowered: *corol*, glume awned at the base: *stamina* 3: *styles* 2: *seed* 1, coated.

Male. *Corol* awnless: *stamina* 3.

caricosus. Spike solitary, imbricate: seeds rough-haired: awns naked, twisted.

East Indies. *Rumph. Amb. 6. t. 7. f. 2. A.*

contortus. Spike solitary: males on one side, awnless: females opposite, twice as long as the males, with twisted approximate awns longer than the spike.

East Indies. *Pluk Alm. 1. 191. f. 5.*

crinitus. Spike solitary, rough-haired: awns naked, jointed, very long.

Japan. *Thunb. Jap. 30. t. 7.*

divaricatus. Spike oblong: flowers woolly, divaricate, remote: awns naked, flexuous.

North America. *Spike* conic, lax, nodding.

Gryllus. Peduncles of the panicle quite simple, 3-flowered; hermaphrodite florets awned, sessile, ciliate, bearded at the base.

South of Europe. *Barr. ic. 18. f. 2. Mont. ic. 67.*

saccharoides. Branches of the panicle simple: florets in pairs; hermaphrodite awned, sessile; the other awnless, pedicelled, deciduous: pedicel and rachis woolly.

West Indies. *Savarez. prodr. 26.*

nutans. Panicle nodding: awns twisted, polished: glumes of the calyx rough-haired.

North America. *Peduncles* naked: *pedicels* 2-flowered.

ciliatus. Panicle nodding: outer-calyx many-flowered, ciliate: awns twisted, hairy.

Japan. *Thunb. Jap. 40.*

serratus. Panicle lax: 1 floret sessile, villous at the base; the other pedicelled; pedicell villous, shorter than the calyx.

Japan. *Thunb. Jap. 41.*

cotuliferus. Panicle spreading, villous: awns twisted, naked: pedicels clavate and hollowed at top.

Japan. *Thunb. Jap. 41.*

symbarius. Panicle scattered: bractes boat-shaped: flowers transverse, awned, 3-fold.

East Indies. *Culms* polished, full sheathed.

squarrosus. Panicle crowded: glumes sabulate, rugged.

Ceylon. *Culms* glabrous: *leaves* rugged.

- prostratus*. Peduncles in 5-flowered umbels without calyces; hermaphrodite-floret awned.
East Indies. *Culms* branching, jointed, prostrate,
- fastigiatus*. Spikes of the panicles solitary: peduncles elongated, nearly flat-topped: rachis woolly: florets awned; the male fertile.
Jamaica. *Swartz prodr.* 26.
- aloppecuroides*. Panicle lax: rachis woolly: florets with each a twisted awn.
Jamaica. *Sloan. Jam.* 1. t. 70. f. 1.
- distachus*. Spikes 2, terminal: culm undivided.
Switzerland. *Bocc. Mus.* 1. 8. f. 1?
- Schoenanthus*. Spike of the panicle conjugate, ovate-oblong; rachis pubescent: florets sessile, with a twisted awn. *Camel's bay*.
Arabia. *Rumph. Amb.* 5. t. 72. f. 2. *Rel. Rudb.* t. 21. 3.
- virginicus*. Spikes of the panicle conjugate: peduncles simple: rachis woolly: florets awnless; the male withering.
Jamaica. *Sloan. Jam.* 1. t. 68. f. 2.
- bicornis*. Spikes of the panicle conjugate: peduncles much branched: rachis woolly: awn caducous: male-floret 0.
Jamaica. *Sloan. Jam.* 1. t. 15.
- birtus*. Spikes of the panicle conjugate: calyx rough-haired.
Virginia. *Reliq. Rudb.* t. 7. f. 3. t. 15. f. 1.
- insularis*. Panicle lax, glabrous: florets double, awnless; one pedicel shorter: calyx woolly.
Jamaica. *Sloan. Jam.* 1. t. 14. f. 2.
- barbatus*. Spikes digitate: calyx permanent: corols ciliate.
East Indies. *Leaves* 3, alternate, rough-edged.
- Nardus*. Branches of the panicle more than decomposed, proliferous.
India. *Panicle* mixed with leaflets. *Spikes* and.
- muticus*. Spikes digitate, mostly 3: florets alternate, sessile, awnless.
The Cape. *Culms* hairy: *leaves* convolute, subulate.
- Ischæmum*. Spikes digitate, numerous: florets sessile, awned and awnless: pedicels woolly.
South of Europe. *Schreb. gram.* 2. t. 33.
- glaucus*. Panicle leafy: involucels and calyxes 2-flowered: calyx of the sessile-flower 3-valved, of the peduncled ones 2-valved.
East Indies. *Retz. obs.* 5. 20. n. 46.
- serratulus*. Spike simple, imbricate, with 2 rows of awned, sessile flowers, and 2 of awnless pedicelled ones: calyx 1-valved.
East Indies. *Retz. obs.* 5. 21. n. 47.
- incurvatus*. Spikes filiform, somewhat digitate: flowers in pairs; female pedicelled and awned; male sessile, awnless: calyx 1-valved.
East Indies. *Retz. obs.* 5. 21. 48.
- binatus*. Spikes in pairs, woolly: one valve of the calyx pointed, the other truncate and 3-toothed: larger petal awned.
East Indies. *Retz. obs.* 5. n. 59.

aciculatus. Panicle contracted, erect: peduncles 3-flowered; males 2, pedicelled, pointed; female sessile, awned.

East Indies. *Rumph. Amb.* 6. 1. 5. f. 1.

Bladbii. Spikes about 8: hermaphrodite floret sessile, awned; neuter peduncled, ciliate, awnless.

East Indies. *Retz obs.* 2. 27. n. 96.

provincialis. Spikes fascicled, glabrous: florets alternate, nearly sessile; pointing one way, awned.

East Indies. *Retz obs.* 3. 43. n. 97.

1833. ISCHÆMUM. Herm. *Calyx*, glume 2-valved, 2-flowered, cartilaginous: *corol*, glume 2-valved: *stamina* 3: *styles* 2: *seed* 1. Male, *stamina* 3.

muticum. Leaves lanceolate: flowers awnless.

East Indies. *Rheed. Mal.* 12. 91. 1. 49.

aristatum. Leaves lanceolate: calyx 2-flowered: pedicels ciliate: female florets with a twisted sharply bent awn.

East Indies. *Retz obs.* 6. 36. n. 78.

imberbe. Leaves lanceolate: florets naked: outer-valve of the sessile calyx with 2 knobs each side; the corol elongated by a twisted awn.

East Indies. *Retz obs.* n. 76.

barbatum. Leaves lanceolate: calyx 2-flowered, bearded at the base, ciliate at the edge; margin of the sessile-one with 2 knobs each side and a sharply bent awn.

Java. *Retz obs.* 6. 35.

spuriinum. Spike 2 parted: calyx and seed awned.

Tanna Island. *Forst. prodr.* 385.

involutum. Spike pointing one way, awnless, 4 flowered, involved in a leafy concave receptacle.

Society islands. *Forst. prodr.* 385.

importunum. Panicle contracted: corols 1-valved.

Cochinchina. *Lour. Cochinch.* 646.

rugosum. Outer barren glumes transversely wrinkled: male and female florets fertile, one only awned.

East Indies. *Salisb. ic. tab.* 1.

1834. MANISURIS. Herm. *Calyx*, glume 2-valved, 1-flowered; outer-valve emarginate at the top and sides: *corol* less than the calyx: *stamina* 3: *styles* cloven. Male. Females in the lower side of the same spike, standing more erect.

myurus. Spike lateral: outer-valves flat, ovate, emarginate at the top and sides: culm ascending.

East Indies. *Swartz. prodr.* 25.

- granularis*. Spikes lateral: outer-valves orbicular, with callous dots: sheaths hairy: culm erect.
Jamaica. *Sloan Jam.* 1. 128. t. 80.
1835. VALANTIA. Herm. *Calyx* 0: *corol* 4-parted: *stamina* 4: *style* 1: *seed* 1.
Male. *Calyx*, 0: *corol* 3 or 4-parted: *stamina* 4 or 3: *pistil* obsolete. *Cross-wort*.
- muralis*. Male-flowers 3-cleft, placed on the glabrous germ of the hermaphrodite.
South of Europe. *Hort. Rom.* 1. t. 83. *Mich. gen.* t. 7-
- bispida*. Male-flowers 3-cleft, placed on the bristly germ of the hermaphrodite.
South of Europe. *Stems* bristly: *leaves* rugged.
- filiformis*. Capsules longer than the pedicels, cylindrical, hairy, unarmed: leaves lanceolate, glabrous, slightly ciliate.
Canaries. *Aiton. Hort. Kew.* 3. p. 428.
- Cucullaria*. Each of the fructifications covered with an ovate deflected bracte.
Levant. *Buxb. cent.* 1. 13. t. 19. f. 2.
- Aparine*. Male-flower 3-cleft, pedicelled, placed on the peduncle of the hermaphrodite.
South of Europe. *Leaves* mostly 6 in a whorl.
- glabra*. Male-flowers 4-cleft: peduncles forked, leafless: leaves oval, ciliate.
South of Europe. *Scop. Carn. n.* 144. tab. 2.
- articulata*. Male-flowers 4-cleft: peduncles forked, leafless: leaves heart-shaped.
Egypt, Barbary. *Floral-leaves* sessile.
- hypocarpia*. All the flowers 4-cleft, beneath the germ: peduncles naked, 1-flowered.
Jamaica. *Leaves* in fours: *flowers* small, yellow.
1836. PARIETARIA. Herm. *Calyx* 4-cleft: *stamina* 4: *styles* 1: *seed* 1: superior, covered with the elongated calyx.
Fem. *Stamina* 0. *Pellitory*.
- indica*. Leaves lanceolate: stem erect.
India. *Rumph. Amb. tab.* 10. f. 1.
- officinalis*. Leaves lance-ovate, 1-nerved at the base: segments of the involucre ovate: stem nearly erect.
Walls. *Engl. Bot.* t. 879. *Curt. Lond. fasc.* 4. t. 63.
- judaica*. Leaves ovate: stems erect: calyx 3-flowered: male-corols long cylindrical.
South of Europe. *Bocc. Sic.* 47. t. 24. f. A.

- Iusitanica.* Leaves ovate, obtuse: stems filiform striate, smooth, procumbent.
Portugal. *Bocc. Sic.* 47. *tab.* 24. *f.* B.
- urticaefolia.* Leaves ovate, opposite, petioled, serrate, veined, pubescent: flowers axillary:
Bourbon. *Linn. suppl.* 438.
- cretica.* Leaves somewhat ovate: involucre of the fruit 5-cleft, compressed, the lateral segment larger.
Crete. *Tournef. cor.* 38.
- capensis.* Leaves opposite, ovate, serrate: branches diffuse: flowers sessile.
The Cape. *Thunb. prodr.* 31.
- debilis.* Leaves alternate, ovate, petioled, quite entire, a little hairy: peduncles axillary, about 3-flowered: stem nearly erect.
New Zealand. *Forst. flor. Aust. n.* 378.
- cochinchinaensis.* Leaves ovate, 3-nerved, hairy: stem tufted diffuse: flowers monœcious.
Cochinchina. *Lour. Cochinch.* 654.
- arboorea.* Leaves elliptic, pointed, about 3-nerved: stem arboreous.
Canaries. *L'Herit. strip. nov. t.* 20. *Urtica.*

1837. ATRIPLEX. Herm. *Calyx* 5-parted, inferior: *corol* 0: *stamina* 5: *style* 2 parted: *seed* depressed.

Fem. *Calyx* 2-leaved: *corol* 0: *style* 2-parted: *seed* 1, compressed. *Orach. Sea purslane.*

coriacea. Stem shrubby, decumbent: leaves ovate, concave, fleshy, coriaceous.

Arabia *Forsk. Æg. arab. p.* 175.

albicans. Stem shrubby, erect: leaves halbert-shaped, very entire, spikes terminal.

The Cape. *Aiton. Hort. Kew.* 3. *p.* 430.

Halimus. Stem shrubby: leaves deltoid, entire.

Spain, Portugal. *Baub. hist.* 1. 227. *f.* i.

**portulacoides.* Stem shrubby: leaves opposite, ovate-lanceolate: flower mostly monœcious.

Salt Marshes. *Engl. Bot. t.* 261.

glauca. Stem somewhat shrubby, procumbent: leaves ovate, sessile, very entire; lower-ones slightly toothed.

France, Spain. *Dill. elth. t.* 4. *f.* 46.

rosea. Stem herbaceous: leaves hoary, serrate: fruit quadrangular toothed.

South of Europe. *Flowers* in close sessile heads.

sibirica. Stem herbaceous: leaves deltoid, angular: calyx of the fruit muricate on the outside.

Siberia. *Leaves* silvery underneath: *flowers* white.

- tatarica*. Stem herbaceous : leaves deltoid, sinuate-toothed, undulate, alternate.
Tartary. *Leaves* cinereous underneath.
- hortensis*. Stem erect, herbaceous : leaves triangular.
Tartary. *Blackw. t.* 99. 522.
- laciniata*. Stem herbaceous, spreading : leaves deltoid, sinuate-toothed : silvery underneath.
Sea sands. *Engl. Bot. tab.* 165.
- patula*. Stem herbaceous, spreading : leaves deltoid-lanceolate, somewhat halbert-shaped : calyx of the fruit slightly muricate on the disk.
Wastes. *Engl. Bot. t.* 936. *Curt. Lond. fasc. 2. t.* 66.
- angustifolia*. Stem herbaceous, divaricate : leaves lanceolate, very entire ; the lowermost somewhat halbert-shaped : calyx of the fruit somewhat halbert-shaped, nearly smooth.
Wastes. *Smith. Flor. Brit. 3. p.* 1092. *n.* 4.
- erecta*. Stem herbaceous, erect : leaves ovate-lanceolate, lower-ones sinuate : calyx of the fruit every where muricate.
Wastes. *Smith. Flor. Brit. 3. p.* 1093. *n.* 5.
- littoralis*. Stem herbaceous, erect, all the leaves linear, entire or toothed : calyx of the fruit muricate, sinuate.
Salt marshes. *Eng. Bot. t.* 708.
- pedunculata*. Stem herbaceous, flexuous, divaricate : leaves obovate, very entire : female flowers peduncled, wedge-form.
Salt marshes. *Eng. Bot. t.* 232. *Flor. Dan. t.* 304.
- salicina*. Stem herbaceous, glabrous, round : leaves lanceolate, unequally ferrate ; radical-ones linear, very entire : spike terminal, clustered, leafless.
Siberia. *Pall. it. 1. p.* 495. *n.* 113.

1839. TERMINALIA. *Calyx* 5-parted : *corol* 0 :
filamina 10.

Herm. *Style* 1 : *drupe* inferior, boat-shaped.

- Catappa*. Leaves obovate, downy underneath.
East Indies. *Rumph. Amb. 1. t.* 68. *Rheed, Mal. 4. t.* 5.
- glabrata*. Leaves obovate, glabrous both sides.
Society Islands. *Forst. prodr.* 389.
- latifolia*. Leaves obovate, slightly ferrate : drupes fleshy.
Jamaica. *Savartx, prodr.* 68. *Brown. Jam.* 255.

arbuscula. Leaves ovate-lanceolate, entire, pubescent: branches forked: racemes erect.

Jamaica. Swartz. *prodr.* 68.

Chebula. Leaves ovate, naked: petioles with 2 glands above: racemes simple.

East Indies. Retz. *obs.* 5. 31. n. 91. Leaves entire.

angustifolia Leaves lanceolate, repand, pubescent.

East Indies. Jacq. *hort.* 3. t. 160.

1840. BRABEIIUM. Herm. *Calyx*, scales of the ament: *corol* 4-parted, revolute above: *stamina* 4: *pistil* 1: *drupe* roundish: *seed* globular.

Male. *Calyx*, scales of the ament 3-flowered: *corol* 4 or 5 parted: *stamina* 4, inserted in the throat: *style* cloven, abortive.

stellulifolium Brabeium.

The Cape. Breyn. *cent.* 1. t. 1. Pluk. *alm.* t. 265. f. 3.

Tree with horizontal branches: leaves pale russet-colour beneath, toothed: flowers whitish.

1841. CLUSIA. Male. *Calyx* 4-6-leaved; the leaves opposite and imbricate: *corol* 4-6-petalled: *stamina* numerous.

Fem. *Nectary*, formed of the united antheræ, inclosing the germ: *capsule* 5-celled, 5-seeded, filled with pulp. *Balsam-tree.*

rosea. Leaves veinless: flowers 4-petalled.

Bahamas. Catesby *Car.* 2. t. 99. Pluk. *alm.* t. 357. f. 2.

alba. Leaves veinless: flowers 5-petalled.

Martinico. Jacq. *Amer.* t. 166. *pist.* t. 250.

flava. Leaves veinless: flowers 4-petalled.

Jamaica. Sloan. *Jam.* 2. t. 200. f. 1. Jacq. *Amer.* t. 167.

venosa. Leaves alternate, oval-lanceolate, ferrate, veined, brown underneath: spikes terminal.

Martinico. Plum. *gen.* 21. ic. 87. f. 2.

pedicellata. Leaves opposite, obovate, very entire, veined: oymes axillary: flowers 4-petalled.

New Caledonia. Forst. *flor. Aust.* n. 390.

sessilis. Leaves opposite, obovate and elliptic, very entire, veined: flowers axillary, solitary, nearly sessile, 4-petalled.

Tongatabu. Forst. *flor. Aust.* n. 391.

1842. OPHIOXYLUM. Herm. *Calyx* 5-cleft: *corol* 5-cleft, funnel-form: *stamina* 5: *pistil* 1: *berry* double, 2-celled: *seeds* solitary.

Male. *Calyx* cloven: *corol* 5-cleft, with a funnel-form mouth: *stamina* 2.

serpentinum Ophioxylum.

India *Rumph. Amb.* 7. p. 30. *Rheed. Mal.* 6 t. 7.

Stem erect, round, simple: *leaves* in fours, cruciate, lance-ovate, glabrous, pointed: *flowers* terminal.

1843. COPROSMA. *Calyx* 1-leaved, 5-toothed: *corol* 5 or 6-cleft: *stamina* 5-7.

Herm. *Styles* 2, long: *berry* 2-seeded: *seeds* flat on one side, concave on the other.

fetidissima. Flowers solitary.

New Zealand. *Forst. gen. tab.* 69. Shrub very fetid.

lucida. Peduncles compound.

New Zealand. Whole plant glabrous.

1844. FUSANUS. Herm. *Calyx* 5-cleft: *corol* 0: *stamina* 4: germ inferior: *stigmata* 4: *drupe*.

Male. *Fruit* abortive.

compressus. Fusanus.

The Cape. *Berg. Cap.* 38. t. 1. f. 1. Colpoon.

Tree with 2-edged branches: *leaves* opposite, obovate, obtuse with a point, entire: *racemes* axillary.

1845. HYPELATE. *Calyx* 5-leaved: *corol* 5-petalled: *filaments* 8: *stigma* deflected, 3-fided: *drupe* 1-seeded.

trifoliata. Hypelate.

Jamaica. Shrub with erect leafy branches.

1846. ACER. Herm. *Calyx* 5-cleft: *corol* 5-petalled: *stamina* 8: *pistil* 1: *capsules* 2 or 3, superior, 1-seeded, terminating in a wing.

Male. *Stamina* 8.

Maple.

sempervirens. Leaves ovate, very entire, evergreen.

Levant. *Leaves* like those of the box.

tataricum. Leaves heart-shaped, undivided, ferrate, with obscure lobes: flowers racemed.

trifidum. Leaves undivided and 3-cleft, very entire on the edge.

Japan. *Thunb. Jap.* 163.

monsefful- num. Leaves 3-lobed, very entire, glabrous, annual.

Italy. *Pluk. alm. tab.* 251. f. 3. *Dubam. t.* 10. f. 8.

creticum, Leaves 3-lobed, very entire, pubescent, perennial.

Crete. *Pocock. it. t.* 85. *Dubam. arb.* 1. t. 10. f. 9.

- penſylvanicum*. Leaves 3-lobed, pointed, ſharply doubly ferrate : racemes ſimple : calyx glabrous.
North America. *Mill. fig. t. 7. Dubam. t. 12. 13. f. 11.*
- montanum*. Leaves about 5-lobed, acute, ferrate : racemes compound : calyx hairy
North America; *Du Roy, Herb. 1. p. 22. t. 2.*
- * *campeſtre*. Leaves with 5 obtuſe notched lobes : corymb 3-parted, erect.
Hedges. *Eng. Bot. t. 304.*
- platanoides*. Leaves 5-lobed, toothed : the teeth pointed : corymb ſimple, erect.
Europe. *Mill. fig. t. 8. f. 1. Trew. ſelect. t. 91.*
- rubrum*. Leaves 5-lobed, ſlightly toothed, glaucous underneath : peduncles quite ſimple, aggregate.
Virginia. *Cateſby Car. 1. t. 62. Mill. fig. t. 8. f. 4.*
Male flowers on a ſeparate tree.
- * *Pſeudoplatanus*. Leaves 5-lobed, unequally ferrate : racemes pendulous.
Hedges. *Eng. Bot. t. 303. Dubam. 1. t. 36.*
- picum*. Leaves glabrous, with 7 pointed entire lobes.
Japan. *Thunb. Jap. 162.*
- ſeptemlobum*. Leaves glabrous, 7-lobed ; lobes pointed, equally and acutely ferrate.
Japan. *Thunb. Jap. 162.*
- palmatum*. Leaves palmate, ferrate, glabrous : flowers umbelled.
Japan. *Thunb. Jap. 162.*
- ſaccharinum*. Leaves palmate in 5 diviſions, with pointed teeth, pubeſcent underneath.
Penſylvania. From this is produced the Maple ſugar.
- diſſectum*. Leaves palmate in many diviſions ; the ſegments ſomewhat pinnatifid and ferrate.
Japan. *Thunb. Jap. 160.*
- japonicum*. Leaves cut in many diviſions, villous ; flowers ſomewhat umbelled.
Japan. *Thunb. Jap. 161.*
- Negundo*. Leaves compound : flowers racemed.
North America. *Pluk. alm. t. 123. f. 4. 5.*
- opalus*. Leaves roundiſh, 5-lobed, laxly ferrate : capſules ovate, glabrous, nearly erect.
Italy. *L'Herit, ſtirp. nov. 2. tab. 98.*
- pinnatam*. Leaves pinnate, leaflets oblong, very entire.
Cochinchina. *Lour Cochinch. 649.*
1847. AILANTHUS. Herm. Calyx 5-parted : corol 5-petalled : ſtamina 2 or 3.
Male. Stamina 10.
Fem. Styles lateral, curved inwards : capſules 3-5 : membranaceous, 1-feeded.

glandulosa. *Ailanthus*.

China. *L'Herit. stirp. nov.* 6. tab. 84.

Tree 40 feet high: leaves unequally pinnate, with numerous leaflets: panicle terminal.

1848. *CELTIS*. Herm. *Calyx* 5-parted: corol 0, *stamina* 5: styles 2: drupe 1-seeded.

Male. *Calyx* 6-parted: *stamina* 6. *Nettle-tree*.

occidentalis. Leaves obliquely ovate, ferrate, pointed.

Virginia. *Mill fig. tab.* 88.

orientalis. Leaves obliquely heart-shaped, ferrate, villous underneath.

Levant. *Pluk. alm. t.* 221. f. 4. *Rheed Mal.* 4. t. 40.

americana. Leaves oblong-ovate, obtuse, nerved, glabrous above, shining golden underneath.

West Indies. *Plum. Cat.* 18.

micrantha. Leaves obliquely heart-shaped, ovate-lanceolate, ferrulate, a little rough above.

Jamaica. *Brown. Jam.* 173. tab. 12. f. 2.

aculeata. Leaves heart-ovate, obtuse, nearly entire, quite glabrous: branches prickly.

Caribbees. *Swartz. prodr.* 53. obs. 92.

Lima. Leaves obliquely heart-shaped, ovate lanceolate, pointed, ferrate, very rugged above.

West Indies. *Swartz. prodr.* 53. Fruit minute.

1849. *GOUANIA*. Herm. *Calyx* 5-cleft: corol 0: *antheræ* 5, under a veil: styles 3-cleft: fruit dry, divisible into 3 parts.

Male without germ and stigma.

domingensis. *Gouania*. *Chaw-stick*.

St. Domingo. *Jacq. Amer.* 179. f. 40. *piet. t.* 264. f. 96.

Stem shrubby, climbing by axillary tendrils: leaves ovate with a point, toothed, glabrous: racemes furnished with a leaflet or two.

1850. *HERMAS*. Herm. *Umbel* terminal: *involucres* general and partial: *umbellets* with truncate rays, the central-one floriferous: *petals* 5. *stamina* 5, barren: seeds in pairs, nearly orbicular.

Male. *Umbels* lateral: *involucres* general and partial: *umbellets* many-flowered: *petals* 5: *stamina* 5, fertile.

depauperata Shrubby: leaves oblong, clasping, toothed, villous underneath.

The Cape. *Burm. Afr.* 196. tab. 71. f. 2.

gigantea. Leaves lance-ovate, entire, woolly above, downy underneath.

The Cape. *Leaves* radical, petioled.

capitata. Stem downy : leaves somewhat heart-shaped, serrate : umbels in heads.

The Cape. *Leaves* white-downy underneath.

*quinque-den-
tata*. Stem glabrous ; leaves ovate, 5-toothed, downy underneath : umbel solitary.

The Cape. *Leaves* with 5 deep notches.

ciliata. Stem glabrous : leaves ovate, ciliate, downy underneath : umbels several.

The Cape. *Linn. suppl.* 436.

1851. MIMOSA. *Calyx* 5-toothed : *corol* 5-cleft : *stamina* 5 or more : *style* 1 : *stigma* truncate : *legume*.

A. *Leaves* simple.

verticillata Unarmed : leaves in whorls, linear, pungent.

New South Wales. *Curt. Magaz.* 146. 110.

emphicifolia Unarmed, arboreous : leaves ovate, obtuse, very entire, nerved : heads globular, peduncled.

Tanna, India. *Rumph. Amb.* 3. t. 81. Mangium.

myrtifolia. Leaves elliptic-lanceolate, oblique, very entire, cartilaginous on the edge : heads in axillary racemes : legumes linear, with a thick edge.

New Holland. *Curt. Mag.* t. 302 *Smith. New Holl.* t. 15.

suaveolens. Leaves linear, pointed, straight, cartilaginous at the edge ; the primordial-ones pinnate : branches 3 sided.

New South Wales. *Smith. Linn. Trans.* 1. p. 253.

lipidula. Leaves elliptic, oblique, rugged both sides and on the edge ; branchlets bristly-pubescent : heads solitary.

New South Wales. *Smith New Holl.* 53 tab. 16.

B. *Leaves* simply pinnate.

Xylocarpa. Leaves scattered, in pairs ; leaflets 2 to 4 pair : entire, oblong, glabrous, the outer-pair larger : petioles with glands : stipules lanceolate.

Coromandel. *Roxb. Corom.* 68. tab. 100.

alle. Unarmed : leaflets 3 pair, equal, ovate-pointed : petiole slightly margined.

Cayenne. *Swarthz. prodr.* 85.

Juga. Unarmed : leaflets 5 pair : petiole margined, jointed.

Indies. *Sloan. Jam.* 3. t. 183. f. 1. *Merian. Surin.* t. 51.

laurina. Unarmed : leaflets 2 pair, ovate, shining, nearly equal : petiole linear, angular : spikes axillary, solitary.

St. Kits. *Swarthz. prodr.* 85.

paucifolia. Unarmed : leaflets 2 pair : petiole margined.

Barbadoes. *Jacq. Amer.* t. 164. *Pluk. phyt.* 141. f. 2.

- nodosa*. Unarmed: leaflets 2 pair, the inner-ones smaller: petiole linear.
Ceylon. *Pluk. phyt. tab. 211. f. 5.*
- pilosa*. Unarmed: leaflets many pair, very hairy: heads terminal: legumes straight, slender.
Cochinchina, *Lour. Cochinch. 650.*
- C. *Leaves bigeminate or tergeminate.*
- bigemina*. Unarmed: leaves bigeminate, pointed.
India. *Rheed. Mal. 6. tab. 12.*
- Unguis cati* Thorny: leaves bigeminate, obtuse: glands at the division of the petioles and between the leaflets.
Jamaica. *Pluk. phyt. tab. 1. f. 6.*
- mellifera*. Thorny: leaves bigeminate, obtuse: prickles-recurved: gland at the base of the petioles only.
Egypt. *Vahl. jymb. 2. 103.*
- dulcis*. Thorns stipular, nearly erect: leaves bigeminate; leaflets obliquely oblong, pointed, glabrous.
Coromandel. *Roxb. Coromand. 67. tab. 99.*
- tergemina*. Unarmed: leaves tergeminate.
West Indies, *Jacq. Amer. t. 177. Plum. ic. 10. f. 1.*
- D. *Leaves conjugate, and likewise pinnate.*
- latifolia*. Unarmed: terminal leaflets opposite, lateral-ones alternate.
America. *Plum. ic. 9. Flowers sessile.*
- purpurea*. Unarmed: innermost leaflets smaller.
West Indies. *Plum. ic. 10. f. 2.*
- reticulata*. Spines stipular: leaflets 6 pair: petioles ending in a gland above and a prickle beneath.
The Cape, *Pluk. phyt. tab. 123. f. 2. Acacia.*
- viva*. Unarmed: partial leaflets 4 pair, roundish: stem herbaceous, unarmed.
Jamaica. *Sloan. Jam. 2. tab. 182. f. 2.*
- circinalis*. Prickly: leaflets equal: stipules spinous.
North America. *Catesby carol. 2. tab. 97*
- cinerea*. Prickly: leaflets equal: prickles incurved.
India. *Pluk. phyt. tab. 2. f. 1. Acacia.*
- casta*. Prickly: partial-leaflets 3 pair, nearly equal.
India. *Comm. hort. 1. 55. t. 28. Æschynomene.*
- sensitiva*. Prickly: partial-leaflets 2 pair; the innermost ones very small. *Sensitive plant.*
Brasil. *Trév. Ebrét. t. 95. Breyn. cent. 31. t. 16.*
- pudica*. Prickly: leaves somewhat digitate: stem brittle.
Brasil. *Comm. hort. 1. t. 29. Plum. ic. 202.*

E. *Leaves doubly pinnate.*

- tendens*. Unarmed: leaves ending in a tendril: leaflets 2 pair.
Indies, *Rumph. 5. t. 4. Rheed. Mal. 8. t. 32-34.*

- angustissima* Unarmed: leaflets very narrow, glabrous: legumes swelling
 South America. *Mart. Mill. DiŒ. n. 74.*
- plena.* Unarmed: spikes 5-flowered, the lower-ones double.
 Vera Cruz. *Mill fig. 182. f. 2. Hbŕst. vel. 10. t. 23.*
- triquetra.* Unarmed; procumbent: leaves 2-pair: heads roundish:
 stems compressed below, 3-sided above.
 East Indies. *Vahl symb. 3. 102.*
- natans.* Leaves 2 or 3 pair; leaflets 13 pair: heads oblong: stem
 flexuous, rooting at the base.
 East Indies. *Rheed Mal. 9. tab. 20.*
- virgata.* Unarmed, erect, angular: spikes decandrous; the lower-
 ones barren males.
 West Indies. *Jacq. hort. 1. tab. 80.*
- punctata.* Unarmed: spikes erect: flowers decandrous, the lower-
 ones barren.
 America. *Comm. hort. 1. 61. tab. 31. Æschynomene.*
- pernambucana.* Unarmed; spikes drooping, pentandrous, lower-ones bar-
 ren: stem decumbent.
 America. *Pluk. alm. t. 307. f. 3. Zann. t. 60.*
- arborea.* Unarmed: leaflets halved, acute: stem arboreous.
 Jamaica. *Sloan. Jam. 2. tab. 182. f. 1. 2. Acacia.*
- Fulibriffima.* Arborescent: leaflets cultrate, pointed: all the flowers
 perfect.
 Levant. *Scop. Insul. 1. t. 8. Gmel. it. 3. t. 40.*
- comosa.* Unarmed, arboreous: leaves 3 pair; leaflets 9 or 10 pair,
 oval, retuse at the base: flowers monadelphous.
 Jamaica. *Swartz. prodr. 85.*
- Lebbek.* Unarmed: leaves 4 pair; leaflets oval-oblong: flowers
 monadelphous, fascicled: stem arboreous.
 Egypt. *Pluk. mant. 2. t. 331. f. 2. Acacia.*
- odoratissima* Unarmed: leaves 4 pair; leaflets many pair, oblong,
 obtuse: panicles wandlike: spikelets globular.
 Ceylon. *Pluk. amaltb. t. 351. f. 4.*
- speciosa.* Unarmed: leaves about 4 pair; leaflets about 9 pair; ob-
 long, glabrous, with a gland above the base of the
 midrib.
 East Indies. *Jacq. ic. collect. 1. p. 47.*
- vaga.* Unarmed: outer-leaflets larger, incurved, pubescent.
 India. *Flowers umbelled, polyandrous: calyx downy.*
- corniculata.* Unarmed: petioles swelling at the base, supported by a
 small callous horn: leaflets about 8 pair.
 Cochinchina. *Lour. Cochinch. 651.*
- villosa.* Unarmed: leaves 5 pair; leaflets ovate, villous: petioles
 villous: flowers globular, polyandrous: stem shrubby.
 West Indies. *Swartz. prodr. 85.*

- lutifiliqua*. Unarmed: leaflets 5 pair: branchlets flexuous! buds globular.
North America. *Plum. spec.* 17. *ic.* 6. Acacia.
- polystachia*. Unarmed: partial leaves and leaflets 6 pair, oblong.
America. *Jacq. Amer. t.* 183. *f.* 53. *Plum. ic. t.* 12.
- muricata*. Unarmed: partial leaves 5 pair; proper-ones many pair: stem prickly.
America. *Plum. spec.* 17. *ic.* 11.
- peregrina*. Unarmed: partial leaves 16 pair; leaflets 40 pair, with a petiolar gland at the base.
America. *Legumes* ovate-oblong, flat.
- glauca*. Unarmed: partial leaves 6 pair; leaflets many pair, a gland among the lowest.
America. *Mill. fig. t.* 4. *Catesby Carol.* 2. *t.* 42.
- Pterocarpa*. Unarmed: leaves many pair, a petiolar gland between the 2 outmost: stipules axillary: legumes winged.
Isle of France. *Pluk. mant. t.* 329. *f.* 3. Acacia.
- grandiflora*. Unarmed: leaves abruptly bipinnate, many pair; leaflets many pair, very distinct: raceme compound, terminal.
East Indies. *L'Herit. fert. Angl.* 30. *tab.* 42.
- Houstoni*. Unarmed: leaves abruptly pinnate, about 6 pair; leaflets many pair, somewhat confluent: raceme compound, terminal.
America. *Milk. fig. t.* 5. *Houst. reliq. t.* 26.
- filioides*. Unarmed: partial leaves 6 pair; leaflets very numerous, small, ciliate, without glands.
Mexico. *Cavan. ic.* 55. *n.* 86. *tab.* 78.
- saponaria*. Unarmed: leaves bigeminate and pinnate: panicle terminal.
China. *Rumph. Amb.* 6. *tab.* 66.
- mangensis*. Spines solitary, short: leaves about 9 pair: spikes globular, axillary, solitary.
West Indies. *Jacq. Amer. pict. t.* 262. *f.* 70.
- Juliflora*. Spines stipular, in pairs: leaves 2 pair, with a gland between them: spikes pendulous: legumes compressed.
West Indies. *Swartz. prodr.* 85.
- nitida*. Thorny: leaves 2 pair, a gland between each; leaflets 5 pair: spikes globular, peduncled.
East Indies. *Vahl. symb.* 2. 103.
- umbellata*. Thorny: leaves 2 pair: flowers umbelled: legumes spiral.
Ceylon. *Vahl. symb.* 2. 103.
- cinerea*. Spines solitary: flowers in spikes.
India. *Burm. Zeyl.* 3. *t.* 2. *Pluk. alm. t.* 121. *f.* 5.
Leaves 10 pair: leaflets 22 pair.

- cornigera.* Spines stipular; united; divaricate, compressed, subulate at top: leaflets 12-20 pair: spikes axillary, elongated.
South America. *Comm. hort.* 1. t. 107. *Pluk. ph. t.* 122. f. 1.
- Catechu.* Spines stipular; leaves many pair; glands of the partial-ones solitary: spikes filiform, axillary, in pairs or threes, peduncled.
Indoſtan. *Woodv. med. bot. tab.* 66.
The Indian drug called *Catechu* or *Terra japonica*, is procured from a decoction of the wood of this tree.
- horrida.* Spines stipular, as long as the leaves: partial leaves 6 pair: branches smooth.
India. *Pluk. alm.* 3. t. 122. f. 1.
- ſera.* Spines branched: flowers in spikes.
Cochinchina. *Lour. Cochinch.* 552.
- eburnea.* Spines stipular, united, divaricate, round, subulate: leaflets 6-pair: spikes globular, peduncled, axillary, ſeveral.
East Indies. *Spikes* whitish with a red tip.
- Latronum.* Spines stipular, united, divaricate, round, subulate: leaflets 4 pair: spikes elongated, peduncled, axillary, mostly in pairs.
East Indies. *Shrub* with flexuous interwoven branches.
- tortuosa.* Spines stipular: leaves 4 pair; a gland between the lowest; leaflets 16 pair: spikes globular.
West Indies. *Leaflets* lanceolate, obtuse, glabrous.
- ſarnejiana.* Spines stipular, diſtinct: partial leaves 8 pair: spikes globular, ſessile.
St. Domingo. *E. N. C. ann.* 13. *tab.* 10.
- milotica.* Spines stipular, ſpreading: outer partial leaves ſeparated by a gland: spikes globular, peduncled.
Arabia. *Woodv. t.* 67. *Blackw. t.* 345.
This is the true *Acacia* or *Egyptian thorn*, from which are procured the drugs *Gum Arabic* and *Frankincenſe*.
- ſellata.* Spines stipular: petioles with recurved prickles underneath: flowers racemed.
Arabia. *Vahl. ſymb.* 1. 81. *Forsk. deſcr.* 177.
- pigra.* Prickly, ſmooth: leaves with oppoſite prickles; an erect ſpine between each of the partial ones.
America. *Comm. hort.* 1. t. 30? *Æſchynomene*.
- aſperata.* Prickly, rough-haired: leaves with oppoſite prickles; an erect ſpine between each of the partial ones.
West Indies. *Mill. fig. t.* 182. f. 3. *Breyn. cent. t.* 19.
- campeachiana.* Thorny: partial leaves narrow, with thorns like an ox's horn ſplit longitudinally.
South America, *Mill. fig.* 4. *tab.* 6.
- Senegal.* Spines in threes, the middle one reflected: flowers in ſpikes.
Arabia. *Alp. Egypt. tab.* 15. Bark white,

- Asak*, Spines in threes, all straight: leaves 3 pair, proper 5 pair, a gland between the lowest pair of the partial ones.
Arabia- *Vabl. symb.* 2. 104. *Forsk. descr.* 176.
- casia*, Prickly: leaflets oval-oblong, obliquely pointed.
India. *Pluk. mant.* t. 330. f. 3. *Acacia*
- pinnata*, Prickly: leaflets very numerous, linear-aceroſe: panicle prickly: heads globular.
Ceylon. *Burm. Zeyl.* 2. tab. 1.
- Intſia*, Prickly: partial leaves curved inwards: ſtem angular: ſtipules longer than the prickles.
Eaſt Indies. *Rheed. Mal.* 6. t. 4. *Pluk. phyt.* t. 122. f. 2.
- ſemiſpinosa*, Prickly: joints of the ſtem prickly above.
America. *Spec. pl.* 1508.
- quadrivalvis*, Prickly: ſtem quadrangular, with recurved prickles: legumes 4-valved.
Vera Cruz. *Mill. fig.* t. 182. f. 1. *Houſt. reliq.* t. 25.
- tenuifolia*, Prickly: partial leaves 20 pair: leaflets many pair.
South America. *Plum. ſpec.* 17. *Acacia*.
- ceratonia*, Prickly: leaves 5 pair; partial ones 3 pair: leaflets 3-nerved.
South America. *Plum. ſpec.* 17. ic. 8. *Acacia*.
- tamarindi-folia*, Prickly: leaves 5 pair; partial ones 10 pair: petioles unarmed.
America. *Plum. ſpec.* 17. ic. 7. *Acacia*.
- ſinuata*, Prickly: leaves many pair: heads axillary, ſolitary: legumes ſinuata: ſtem climbing.
Cochinchina. *Lour. Cochinch.* 653.
- lutea*, Prickly: leaflets glabrous: flowers globular, peduncled: prickles very long.
South America. *Mart. Mill. Diſt.* n. 73.
- microphylla*, Prickly all over: leaves 8 pair; leaflets 16 pair: heads axillary, peduncled, ſolitary or in pairs.
Georgia. *Abbot. Georg.* 123. tab. 62.

ORDER II. DICŒCIA.

1852. GLEDITSIA. Herm. *Calyx* 4-cleft: *corol* 4-petalled: *Stamina* 6: *Piſtil* 1: *legume*.
Male. *Calyx* 3-leaved: *corol* 3-petalled: *ſtamina* 6.
Fem. *Corol* 5-petalled: *piſtil* 1: *legume*.

- griacanthos*. Gleditsia. *Honey locuſt.* *Acacia*.
Indies. *Catesby Carol.* 1. t. 43. *Mill. fig.* t. 5.
Tree with ſpines ſometimes in clusters, ſometimes few or none: *leaves* bipinnate; leaflets 10 pair.

1853. BURSERA. Herm. Calyx 3-leaved: corol 3-petalled: capsule fleshy, 3-valved, 1-seeded.

Male. Calyx 5-toothed: corol 5-petalled: stamina 5-10.

gummifera. Bursera.

Jamaica Birch tree.

West Indies. Sloan. Jam. 2. t. 199. Catesby Carol. 1. t. 30.

Tree with ferruginous villous twigs: leaves pinnate, 2 or 3 pair with ad odd one: racemes axillary.

1854. FRAXINUS. Herm. Calyx 0 or 4-parted: corol 0 or 4-petalled: stamina 2: pistil 1: capsule superior, flat, 2-celled, leafy above: seeds few, pendulous.

Fem. Pistil 1, lanceolate.

Ash tree.

Ornus.

Leaflets lanceolate, tapering, petioled, serrate; flowers complete.

Flowering Ash.

South of Europe. Woodv. t. 36. Mill. illust. Hort. Ang. t. 9.

This and several other species produce Manna,

rotundifolia. Leaflets roundish, rather acute, doubly serrate, nearly sessile; flowers coloured.

Levant. Plukn tab. 182. f. 4. Leaflets 5 pair.

americana. Leaflets elliptic-ovate, pointed, very entire, petioled, glaucous underneath.

Carolina, Virginia. Catesby Carol. 1. tab. 802.

platycarpa. Leaflets nearly sessile, lance-elliptic, serrate outwardly: capsules lance elliptic.

Carolina. Michaux. flor. Amer. 2. p. 256.

quadrangularis. Leaflets nearly sessile, lance-elliptic, serrate, pubescent underneath: capsules obtuse at both ends.

Kentucky. Michaux. flor. Amer. 2. p. 255.

epiptera. Leaflets lance-elliptic, slightly serrate: capsules wedge-form, obtuse and emarginate at top, cylindrical below.

Carolina, Virginia. Michaux. flor. Amer. 2. p. 256.

juglandifolia. Leaflets petioled, elliptic-lanceolate, toothed, glaucous underneath: branches and petioles glabrous: petals 0.

North America. Vahl. enum. plant. 1. p. 50.

sambucifolia. Leaflets sessile, elliptic-lanceolate, serrate: the axils pubescent underneath.

North America. Vahl. enum. plant. 1. p. 50.

caroliniana. Leaflets petioled, lanceolate, serrate, glabrous: branchlets glabrous: petals 0.

Carolina. Catesby Carol. 1. tab. 80?

pubescens. Leaflets petioled, elliptic-ovate, serrate, downy underneath; petioles and branches downy: petals 0.

North America. Vahl. enum. plant. 1. p. 51.

angustifolia. Leaflets sessile, lanceolate, remotely denticulate: capsules lanceolate, entire acute and mucronate at the tip.

Spain. *Vahl. enum. plant.* 1. p. 52.

amariscifolia. Leaflets petioled, oblong-lanceolate, with sharp mucronate serratures.

— *Vahl. enum.* p. 52. Leaflets 4 or 5 pair.

parvifolia. Leaflets sessile, ovate, tapering, tooth-serrate: flowers naked.

— *Willd. arb. Berol.* 124. tab. 6. f. 2.

excellior. Leaflets slightly petioled, lance-oblong, tapering, serrate, flowers naked: capsules with an oblique emarginate tip

Woods. *Blackw. t.* 328. *Flor. Dan. t.* 969.

2. Branches pendulous.

heterophylla. Leaves simple and compound, tooth-serrate.

— *Vahl. enum.* p. 53. Capsules acute at the base.

1855. DIOSPIROS. *Calyx* 4-cleft: *corol* cup-shaped, 4-cleft: *stamina* 8: *style* 4-cleft: *berry* 8-celled: *seeds* solitary. *Date palm*.

Lotus. Surface of the leaves of different colours.

Italy, Barbary. *Pall. Ross.* 1. tab. 58.

virginiana. Surface of the leaves of the same colour.

North America. *Mill. fig. t.* 126. *Catesby Car.* 2. t. 76.

Kaki. Peduncles 3 parted.

Japan. *Kämpf. Amæn.* 5. t. 806.

Ebenaster. Leaves oval-oblong, coriaceous: buds glabrous.

East Indies, *Rumph. Amb.* 3. t. 6.

Ebenum. Leaves ovate-lanceolate, pointed: buds rough-haired.

Ceylon. *Aff. Haff.* 2. t. 5. D. glaberrima.

lobata. Leaves ovate-lanceolate, glabrous both sides: peduncles 1-flowered, axillary: berries 8-lobed.

Cochinchina. *Lour. Cochinch.* 227.

dodecandra. Flowers dodecandrous, axillary: berries lenticular.

Cochinchina. *Lour. Cochinch.* 228.

tetrasperma. Leaves membranaceous, shining, wedge-form: berries 4-seeded.

Jamaica. *Swartz. prodr.* 62.

1856. NYSSA. *Herm.* *Calyx* 5-parted: *corol* 0: *stamina* 5: *pistil* 1: *drupe* inferior, with an angular grooved nut.

Male. *Stamina* 10.

Sour gum. Tupelo.

integrifolia. Leaves very entire: nuts roundish, striate.

North America. *Catesby Car.* 1. t. 41. *Pluk. ph.* 1. 172. f. 6.

denticulata. Leaves remotely toothed; nuts oblong, grooved, wrinkled.
North America. *Catesby carol.* 1. tab. 60.

1857. CARICA. Herm. Calyx 5-toothed: corol 5-parted: stamina 10: stigmata 5: berry 1-celled, many-seeded.

Male. Corol funnel-form, 5-parted: filaments in the tube of the corol, alternately longer and shorter.

Papaw-tree.

Papaya. Lobes of the leaves sinuate.

Indies. *Ehret.* 1. 3 f. 1. *Merian. Surin.* 1. 40. 62, 64.

Pofofosa. Lobes of the leaves entire.

Indies. *Feuil. Per.* 2 t. 39. f. 1. *Pluk. alm.* 1. 278. f. 2.

1858. STILBE. Herm. Outer calyx 3-leaved, inner 5-toothed, cartilaginous: corol funnel-form, 4-cleft: stamina 4: style 1: seed 1, invested with the inner calyx.

Male. Inner calyx 0: fruit 0.

pinastra. Spikes hairy: leaves in sixes, linear.

The Cape. *Bergm. Cap.* 1. 4. f. 6. *Comm. hort.* 2. t. 110.

ericoides. Spikes glabrous: leaves in fours, lanceolate.

The Cape. Spike terminal, sessile.

cernua. Spikes drooping: leaves in fours.

The Cape. *Linn. suppl.* 441.

1859 PENNANTIA. Calyx 0: corol 5-petalled: stamina 5: stigma flat, peltate: pericarp 3-sided, 2-celled: seeds solitary.

corymbosa. Pennantia.

New Zealand. *Forst. char. gen.* tab. 67.

1860. ARCTOPUS. Male. Umbels compound: involucre 5-leaved: petals 5: stamina 5: pistils 2, abortive.

Androg. Umbel simple: involucre 4-parted, spinous, containing numerous male-florets in the disk, and 4 females in the ray.

Male. Petals 5: stamina 5.

Fem. Petals 5: styles 2: seed 1, 2-celled, inferior.

echinatus. Arctopus.

The Cape. *Burm. Afr.* 1. 1. *Pluk. mant.* 1. 271. f. 5.

Plant like the Eryngium: leaves crowded, sinuate, ciliate with spines on the upper surface, which are stellate at the sinuses: flowers terminal.

1861. PANAX. Herm. Umbel. Calyx 5-toothed,
superior: corol 5-petalled: stamina 5: styles 2:
berry 2-seeded.

Male. Umbel. Calyx entire.

quinquefolia Leaves in threes, 5-fold. Ginseng.

China, America. *Woodw. t. 99. Blackw. t. 513.*

Root pale, wrinkled, and is the *Ginseng* of the shops.

attenuata. Leaves ternate or quinate; leaflets oval, tapering: crenate:
trunk arboresecent.

West Indies. *Swartz. prodr. 54.*

trifolia. Leaves in threes, ternate.

North America. *Trew. Ebr. t. 6. f. 2. Pluk. mant. t. 435. f. 7.*

aculeata. Leaves ternate; the uppermost next the flowers crowded,
simple: petioles and branchlets prickly: stem shrubby.

China. *L'Herit. stirp. nov. 2. tab. 99.*

spinosa. Leaves quinate, alternate: spines solitary, below the
branches: umbels lateral,

Japan. *Spines strong, straight, spreading.*

arborea. Leaves quinate, obovate: serrate-toothed: umbels com-
pound.

New Zealand. *Leaflets 5 or 7.*

chrysophylla Leaves in sevens or nines; leaflets, lanceolate, very entire,
downy underneath: umbels paniced.

Guiana. *Aubl. Guian. t. 360. A lofty tree.*

fruticosa. Leaves more than decomposed, tooth ciliate: stem shrubby,
Ternate Island, *Rumph. Amb. 4. tab. 33*

simplex. Leaves alternate; lanceolate; serrate; umbels compound.

New Zealand. *Forst. flor. Aust. n. 399.*

1862. SPINIFEX. Calyx, glume 2-valved, 2-
flowered; the valves parallel to the rachis: corol,
glume 2-valved, awnless: Stamina 3: styles 2:
seed 1.

spinosus. Spinifex.

East Indies *Mor. hist. sect. 8. tab. 8. f. 11.*

Culms large, glaucous: leaves crowded at the joints, grassy,
convolute, rigid, spinous at the end.

1863. CHRYSISTRIX. Herm. Calyx, glume 2-
valved: corol of numerous setaceous chaffs: sta-
mina numerous, solitary, between the chaffs:
pistil 1.

Male. Pistil 0.

sapensis.

Chryslitrix.

The Cape. *Leaves* sword-shaped, equitant: *scape* compressed, membranaceous, ending in a 2-valved spathe.

1864. CHAMÆROPS. *Calyx* 3-parted: *petals* 3: *stamina* 6: *pistils* 3: *drupe* 3, 1-seeded. *Palmetto*.

humilis.

Fronds palmate, plaited; stalks thorny.

South of Europe. *Pont. anth.* 147. *tab.* 8.

excelsa.

Fronds palmate, nerved, ferrate; stalks unarmed.

Japan. *Lobes* of the leaves cohering at the base.

*cochinchi-
nensis.*

Fronds palmate, plaited; stalks thorny: spathes partial: corols 1-petalled.

Cochinchina. *Lour. cochinch.* 657.

1865. RHAPIS. *Calyx* 3-cleft: *corol* 3-cleft: *stamina* 6: *pistil* 1. *Ground rattan*.

*stelliger-
mis.*

Fronds palmate, plaited; the plaits and margins with prickly denticles.

China. *L'Herit. Stirp. nov.* 2. t. 100.

arundinacea

Fronds 2-parted: the lobes acute and plaited, plaits rough.

Carolina. *Aiton. Hort. Kkw.* 3. p. 474.

ORDER III. TRICÆCIA.

1866. BREYNIA. Herm. *Calyx* 6-parted: *corol* 0: *antheræ* 5, linear, attached to the style: *berry* 3-celled: *seeds* 2.

Male. *Calyx* 5-parted: *filaments* 3: *antheræ* roundish.Fem. *Stigmata* 5, inversely heart-shaped, petal-like, without style: *capsules* 5-celled: *seeds* solitary.*disticha.*

Breynia.

New South Wales. *Forst. char. gen.* t. 73.

1867. CERATONIA. Herm. *Calyx* 5-parted: *corol* 0: *stamina* 5: *style* filiform: *legume* coriaceous, many-seeded.

Dioecious. Male and female distinct.

Siliqua.

Ceratonia.

Carob tree. *St. John's bread*.

Sicily, Levant. *Blackw. t.* 209. *Dod. pempt.* 787. f. 1.

Tree with pinnate leaves; leaflets roundish, entire, thick: *legume* compressed, fleshy, many-celled, valveless.

1868. FICUS. *Receptacle* common, turbinate, fleshy, connivent, covering and concealing the fructification in the same or a distinct plant.

Male. *Calyx* 3-parted: *corol* 0: *stamina* 3.

Fem. *Calyx* 5-parted: *corol* 0: *pistil* 1: *seed* 1, compressed.

Fig-tree.

Carica. Leaves palmate in about 3-lobes, rough underneath: fruit glabrous, pear-shaped, umbilicate.

South of Europe. *Blackw. t.* 125. *Woodv. t.* 130. *Mill. ill.*

Sycomorus. Leaves heart-shaped, roundish, very entire, downy underneath: fruit sessile.

Sycamore.

Egypt. *Pluk. phyt. t.* 178. *f.* 3.

nymphæifolia. Leaves ovate, hearted, mucronate, very entire, glabrous, glaucous underneath.

India. *Leaves* a little waved, obtuse with a point.

religiosa. Leaves ovate, hearted, cuspidate, glabrous, entire: fruit sessile.

India. *Rheed. Mal. t.* 27. *Pluk. alm. t.* 178. *f.* 2.

benjamina. Leaves elliptic, obtuse, glabrous: fruit acute, sessile.

India. *Rheed. Mal. t.* 26. *Rumph. Amb. 3. t.* 90.

benгалensis. Leaves ovate, hearted, very entire, glabrous, obtuse, coriaceous: stem arborescent, erect.

India. *Rheed. Mal. t.* 28. *Trew. Ebr. t.* 50.

pedunculata. Leaves ovate-oblong, hearted, very entire, acute, glabrous: fruit globular: peduncles in pairs, elongated.

South America. *Pluk. Alm. t.* 178. *f.* 4.

lucida. Leaves ovate, hearted, very entire, glabrous, obtuse, 3-nerved at the base: branches erect.

East Indies. *Aiton. Hort. Kew. 3. p.* 451.

indica. Leaves oblong, rounded at the base, smooth, entire, somewhat glaucous underneath, with impressed dots above: fruit nearly globular.

Banyan tree.

East Indies. *Rheed. Mal. 3. t.* 57.

virens. Leaves oblong, pointed, very entire, smooth, narrowed and rounded at the base.

West Indies. *Sloan Jam. 2. t.* 223.

venosa. Leaves ovate, somewhat hearted, acute, very entire, smooth, with impressed dots above.

East Indies. *Rheed. Mal. 3. t.* 64.

costata. Leaves ovate, hearted, with a deep narrow sinus, very entire, glabrous, green both sides.

East Indies. *Aiton. Hort. Kew. 3. p.* 452.

coriacea. Leaves oblong, smooth, tapering to the base, hearted, coriaceous, with immersed veins.

East Indies. *Aiton. Hort. Kew. 3. p.* 453.

racemosa. Leaves elliptic-oblong, acute, glabrous, pale underneath: stem arborescent: branches erect; fruit peduncled.

East Indies. *Rheed. Mal. 1. tab.* 25.

- portusa.* Leaves oblong, cuspidate, glabrous: fruit globular, peduncled, umbilicate.
South America. *Plum. ic.* 132. *f.* 2.
- retusa.* Leaves obovate-oblong, very obtuse: branches angular: fruit sessile.
India. *Fruit* with a 3-leaved approximate calyx.
- pumila.* Leaves oblong-ovate, obtuse, glabrous, reticulate underneath: stem decumbent: fruit peduncled.
China, Japan. *Rumph. Amb.* 3. *t.* 85.
- toxicaria.* Leaves heart-shaped, sinuate, downy underneath: fruit downy.
Sumatra. It is accounted highly poisonous.
- maculata.* Leaves oblong, pointed, ferrate.
America. *Pl. ic.* 131. *f.* 1. Probably the same as *F. hispida*.
- trigona,* Leaves ovate, obtuse, glabrous: stem erect: fruit with a triangular umbilicus.
Surinam. *Plum. ic.* 123. *t.* 132. *f.* 1.
- hispida.* Leaves oblong, cuspidate, hairy, ferrate: fruit peduncled, with stiff bristles.
Java. *Fruit* globular, axillary, racemed.
- stipulata* Leaves obliquely heart-shaped, obtuse, glabrous: stem decumbent, scaly.
China, Japan. *Thunb. fic.* n. 7.
- heterophylla* Leaves oblong, undivided 3-lobed and sinuate, acute, rough: stem bristly: fruit ovate, peduncled, rough.
East Indies. *Rheed. Mal.* 3. *t.* 62.
- microcarpa.* Leaves oblong, on short petioles, 3 nerved, veined, quite glabrous: fruit globular, small, sessile.
Java. Probably the same as *F. benamina*.
- scabra.* Leaves heart-ovate, oblong, oblique, entire, rough underneath: fruit turbinate, without calyx.
South sea Islands. *Forst. flor. aust.* n. 403.
- aspera.* Leaves obliquely hearted, sinuate-toothed, rough both sides: fruit turbinate: edge of the calyx obscure and growing to it.
Tanna islands. *Forst. flor. aust.* n. 404.
- tinctoria.* Leaves obliquely ovate, obtuse: fruit turbinate, calyceled at the base.
Society Island. *Forst. flor. aust.* n. 405.
- septica.* Leaves oblique, oblong-ovate, pointed: peduncles in pairs, calyceled at the tip: fruit warty.
Otaheite. *Forst. flor. aust.* n. 407.
- Granatum.* Leaves ovate, very entire; peduncles terminal, in pairs, horizontally diverging: fruit calyceled, globular.
Society islands. *Forst. flor. aust.* n. 408.
- obliqua.* Leaves lanceolate, quite glabrous, cartilaginous at the edge: peduncles in pairs, very short: calyx caducous, as long as the fruit.
Society islands, *Forst. flor. aust.* n. 409.

- prolixa*. Leaves lance-oblong, pointed, dotted underneath: peduncles in pairs, calyced at the tip.
Society Islands. *Forst. flor. aust. n. 410.*
- calyculata*. Leaves ovate, very entire, obtuse, opposite: fruit globular, calyced.
Vera Cruz. *Mart. Mill. Dict. n. 32.*
- americana*. Leaves ovate, oblong, veined, very entire: berries axillary, peduncled, clustered.
Jamaica. *Sloan Jam. 2. n. 5. Plum. ic. 132. f. 2.*
- erecta*. Leaves oblong, acute, glabrous, reticulate underneath: stem decumbent, with erect branches: fruit peduncled.
Japan. *Kämpf. ic. select. t. 4.*
- stipulata*. Leaves obliquely hearted, obtuse: glabrous: stem decumbent scaly.
Japan. *Thunb. fic. n. 7. Linn. Trans. 2, 327.*
- auriculata*. Leaves heart-shaped, pointed: fruit auricled, racemed, terminal.
Cochinchina. *Rumph. Amb. 3. t. 93.*
- politoria*. Leaves oblong-ovate, very entire, rugged: fruit roundish, in spikes: stem erect.
Cochinchina. *Rumph. Amb. 3. tab. 63.*
- simplicisima*. Leaves palmate: stem quite simple: fruit compressed.
Cochinchina. *Lour. Cochinch. 667.*
- Cannabina*. Stem leaves halbert-shaped, cut; branch-leaves, ovate-lanceolate, slightly ferrate: stem nearly erect.
Cochinchina. *Lour. Cochinch. 668.*
- populifolia*. Leaves finely heart-shaped, acute: fruit in pairs, pedicelled.
East Indies. *Vabl. symb. 1. 82. tab. 22.*
- mollis*. Leaves oblong, very entire, villous underneath: fruit axillary, sessile, downy.
East Indies. *Vabl. symb. 1. 82.*
- salicifolia*. Leaves lanceolate, pointed: fruit in pairs, axillary, peduncled.
Arabia. *Vabl. symb. 1. 82. tab. 23.*
- sagitta*. Leaves heart-shaped, oblong, acute, rugged both sides: stem creeping.
East Indies. *Vabl. symb. 1. 83.*
- denticulata*. Leaves oblong, undivided, 3-lobed and sinuate, denticulate, rugged: fruit peduncled, muricate, globular.
East Indies. *Vabl. 1. 83. Resembles T. heterophylla.*
- truncata*. Leaves oblong, undivided and lobed, very entire, rugged: fruit peduncled, oblong, truncate, rugged.
East Indies. *Vabl. symb. 1. 83.*
- palmata*. Leaves heart-ovate and lobed: ferrate: fruit pear-shaped, peduncled, smooth.
East Indies. *Vabl. symb. 1. 84. tab. 24.*

- serrata.* Leaves oblong, undivided and palmate, repand-toothed, rugged: fruit peduncled, globular, very rugged.
East Indies. *Vabl. symb.* 1, 83.
- cordata.* Leaves somewhat hearted, ovate, acute, glabrous, coriaceous: stem shrubby, erect.
The Cape. *Thunb. fic. n.* 6.
- falcata.* Leaves oblong, falcate, glabrous: stem filiform, rooting.
East Indies. *Thunb. fic. n.* 8. Leaves unequal.
- punctata.* Leaves oblong, emarginate, glabrous, dotted underneath: stem flexuous, rooting.
East Indies. *Thunb. fic. n.* 9. Fruit obovate.
- nitida.* Leaves elliptic, acute, glabrous: fruit retuse-umbilicate, sessile.
East Indies. *Thunb. fic. n.* 14. Fruit globular, smooth.
- reflexa.* Leaves elliptic, obtuse, glabrous: branches recurved: fruit globular, sessile.
East Indies. *Thunb. fic.* 16. Branches wrinkled.
- drupacea.* Leaves obovate, cuspidate, glabrous: fruit ovate, rugged, sessile.
East Indies. *Thunb. fic. n.* 19. Branches grooved.
- reticulata.* Leaves elliptic, somewhat angular, cuspidate, glabrous, reticulate underneath: fruit solitary, globular, peduncled.
East Indies. *Thunb. fic. n.* 21. Fruit axillary.
- sinuata.* Leaves elliptic, sinuate, toothed, cuspidate, glabrous: fruit globular, clustered, peduncled.
East Indies. *Thunb. fic. n.* 22. Fruit minute.
- capensis.* Leaves ovate, acute, glabrous, serrate: fruit peduncled, glabrous.
The Cape. *Thunb. fic. n.* 23. Fruit turbinate.

CLASS XXIV. CRYPTOGAMIA.

Frutification anomalous or concealed.

ORDER I. FILICES.

Herbfrondose: fructification dorsal, or terminal, or nearly radical.

A. Capsules 1-celled, surrounded with an elastic ring.

1869. ACROSTICHUM. Capsules much crowded, occupying the whole disk of the frond: involucre 0.
1870. MENISCIUM. Capsules in nearly parallel lines, with intervening veins of the frond: involucre 0.
1871. HEMIONITIS. Capsules in decussate forked or reticulate lines: involucre 0.
1872. GRAMMITIS. Capsules in straight scattered lines: involucre 0.
1873. POLYPODIUM. Capsules in roundish scattered dots: involucre 0.
1874. ASPIDIUM. Capsules in roundish scattered dots: involucre umbilicate, opening nearly all round.
1875. ASPLENIUM. Capsules in straight scattered lines: involucre lateral, opening inwardly.
1876. DAREA. Capsules in nearly marginal lines: involucre lateral, opening outwardly.
1877. SCOLOPENDRIUM. Capsules in scattered double lines, between veins: involucre superficial, opening by a longitudinal suture.
1878. DIPLAZIUM. Capsules in scattered decussate double lines, near the vein of the frond: involucre originating from the vein, opening outwardly both sides.
1879. LONCHITIS. Capsules in lunate lines, from the sinuses of the frond: involucre from the inflected margin of the frond, opening inwardly.
1880. PTERIS. Capsules in a continued marginal line: involucre from the inflected margin of the frond, opening inwardly.
1881. VITTARIA. Capsules in continued lines along the disk or margin of the frond: involucre continued, double; one of them opening outwardly, the other inwards.
1882. ONOCLEA. Capsules crowded, occupying the whole back of a different frond: involucre continued or interrupted, from the revolute membranaceous margin of the frond, opening inwards.
1883. BLECHNUM. Capsules in longitudinal continued solitary lines, parallel with the rib of the frond: involucre superficial, continued, opening inwards.

1884. *WOODWARDIA*. Capsules in oblong distinct dots near the rib: *involucres* superficial, vaulted, opening inwards.
1885. *LINDSÆA*. Capsules in a continued nearly marginal line: *involucres* superficial, opening outwards.
1886. *ADIANTUM*. Capsules in distinct dots or lines distributed on the margin of the frond: *involucres* membranaceous, originating from the replicate margin, opening inwards.
1887. *DAVALLIA*. Capsules in distinct marginal dots: *involucres* half hooded, superficial, distinct, truncate, opening outwards.
1888. *DICKSONIA*. Capsules in roundish distinct marginal dots: *involucres* double; one superficial, opening outwards; the other from the inflexed margin of the frond, opening inwards.
1889. *CYATHEA*. Capsules in roundish scattered dots, seated on a columnar receptacle, with the calyx-like *involucres* which opens upwards.
1890. *TRICHOMANES*. Capsules in somewhat exerted marginal dots, seated on a column, within the cup-shaped 1-leaved *involucres*.
1891. *HYMENOPHYLLUM*. Capsules in somewhat exerted marginal dots, seated on a column, within the 2-valved flat *involucres*.
1892. *SCHIZÆA*. Capsules crowded, on the back of the appendage of the frond; *involucres* continuous from the inflexed margin of the appendage.

B. Capsules without the elastic ring, opening in the middle.

1893. *OSMUNDIA*. Capsules 1-celled, crowded, somewhat globular, pedicelled, disposed in a raceme or on the back of the frond.
1894. *LYGODYUM*. Capsules 1-celled, solitary, within the imbricate 2-rowed scales of the marginal spikes of the frond, sessile.
1895. *GLEICHENIA*. Capsules 1-celled, 3 together, oval, slightly immersed in a hollow on the ramifications of the frond, sessile.
1896. *ANGIOPTERIS*. Capsules 1-celled, oval, disposed in a line near the margin of the frond, approximate in a double row, sessile.
1897. *DANÆA*. Capsules many-celled, oblong-linear, parallel, immersed in the frond: cells in a double row, opening upwards.
1898. *MARATTIA*. Capsules many-celled, oval, scattered, 2-partible upwards: cells in a double row, gaping.

C. Exannulate, fern-like.

1899. *PSILOTUM*. Capsules globular, scattered, about 3-grained, axillary-lateral, sessile, 3-celled, opening by 3 valves at top.
1900. *BOTRYCHUM*. Capsules nearly globular, distinct, clustered in a raceme-like spike, 1-celled, opening from the top to the base.
1901. *OPHIOGLOSSUM*. Capsules nearly globular, united in a somewhat jointed 2-rowed spike, 1-celled, opening transversely.
1902. *LYCOPodium*. Capsules sessile, solitary, axillary, kidney-form, 2-valved, opening elastically.

1903. *EBISETUM*. *Frond* amentaceous: seeds numerous, enfolded by 4 pollen-bearing filaments.
1904. *PILULARIA*. *Common receptacle* globular, villous, 4-celled; 4-valved, filled with numerous *antheræ*, and many globular *germs* beneath them.
1905. *MARSILEA*. *Common receptacle* oval, coriaceous, many-celled, filled with numerous *antheræ* and *germs*.
1906. *ISOETES*. *Common receptacle* within the base of the leaves, sessile, 1-celled: seeds numerous, angular, rough.

ORDER II. MUSCI.

Herb leafy: corol a deciduous veil, covering the capsule, which is furnished with a lid.

A. *Mouth of the capsule not furnished with teeth.*

1907. *PHASCUM*. *Capsule* closed, not opening by the lid.
1908. *SPHAGNUM*. *Capsule* without fringe: *veil* cut transversely, its base remaining on the lower part of the capsule.
1909. *GYMNOSTONUM*. *Capsule* naked: *veil* separating entirely from the capsule.

B. *Fringe single.*

1910. *TETRAPHIS*. *Capsule* oblong, *fringe* of 4 erect unconnected teeth.
1911. *ANDRÆA*. *Capsule* very short: *fringe* of 4 incurved teeth, cohering at their tips.
1912. *OCTOBLEPHARIUM*. *Fringe* of eight erect unconnected teeth.
1913. *SPLACHNUM*. *Capsule* cylindrical, seated on a fleshy receptacle: *fringe* of 16 teeth, standing in pairs, dilated at the base.
1914. *ENCALYPTRA*. *Fringe* of 16 distinct linear erect teeth: *veil* large, campanulate, lax.
1915. *GRIMMIA*. *Fringe* of 16 teeth, broader at the base *flowers* terminal.
1916. *PTEROGONIUM*. *Fringe* of 16 or 32 linear erect teeth: *flowers* axillary.
1917. *TRICHOSTOMUM*. *Fringe* of 32 filiform teeth, standing in pairs, or connected in pairs at the base.
1918. *DICRANIUM*. *Fringe* of 16 broadish, inflected, cloven teeth.
1919. *TORTULA*. *Fringe* of numerous capillary teeth, spirally twisted together.
1920. *POLYTRICHUM*. *Capsule* oblong or square: *fringe* of 32 or 64 short incurved teeth, connected at their tips by a flat membrane.

B. *Fringe double.*

1921. *ORTHOTRICUM*. *Outer-fringe* of 16 broad teeth standing in pairs; inner of 8 or 16 filiform ones, or 0: *capsule* terminal: *veil* grooved.

1922. *NECKERA*. *Outer-fringe* of 16 broadish distinct teeth; inner of as many filiform ones, alternating with those of the outer: *capsule* lateral: *veil* smooth.
1923. *BUXBAUMIA*. *Outer-fringe* of 16 short truncate teeth; inner a plaited membrane: *capsule* gibbous on one side.
1924. *FUNARIA*. *Outer-fringe* of 16 oblique teeth, cohering at their tips; inner a flat 16-parted membrane: *capsule* obovate.
1925. *TIMMIA*. *Outer-fringe* of 16 broadish teeth; inner an obscurely furrowed membrane, with nearly equal segments: *capsule* ovate.
1926. *BARTRAMIA*. *Outer-fringe* of 16 tapering teeth; inner a carinate 16-parted membrane, with the segments cloven: *capsule* sphaerical: *flowers* terminal.
1927. *BRYUM*. *Outer-fringe* of 16 broadish teeth; inner a jagged membrane: *capsule* ovate-oblong: *flowers* terminal.
1928. *HYPNUM*. *Outer-fringe* of 16 broadish teeth; inner a jagged membrane: *capsule* oblong: *flowers* axillary.
1929. *FONTINALIS*. *Outer-fringe* of 16 broadish teeth; inner a conic reticulate membrane: *capsule* invested with a scaly sheath.

ORDER III. HEPARTICÆ.

Herb frondose: capsules without lid or veil.

1930. *MARCHANTIA*. Male. *Calyx* salver-shaped, with numerous *antheræ* imbedded in its disk.
Fem. *Calyx* peduncled, peltate, flowering beneath: *capsules* bursting at their summits: *seeds* attached to elastic fibres.
1931. *JUNGERMANNIA*. Male. *Flowers* sessile.
Fem. *Capsule* peduncled, naked, arising from a sheath, 4-valved: *seeds* attached to elastic filaments.
1932. *TARGIONIA*. *Calyx* of 2 concave valves: *seeds* numerous, collected into a globe.
1933. *SPHÆROCARPUS*. *Calyx* inflated, undivided: *seeds* numerous, collected into a globe.
1934. *ANTHOCEROS*. Male. *Calyx* 6-parted or entire.
Fem. *Calyx* sessile, cylindrical, entire: *capsule* subulate, very long, 2-valved.
1935. *BLASIA*. Male solitary, imbedded in the frond.
Fem. *Calyx* 0: *capsule* imbedded in the frond, oblique, 1-celled, with a tubular mouth: *seeds* numerons.
1936. *RICCIA*. *Antheræ* cylindrical, seated on the germ, perforated by the style: *capsule* globular, crowned with the withering *antheræ*: *seeds* hemisphaerical, pedicelled.

ORDER IV. ALGÆ.

Herb frondose: seeds imbedded, without capsule.

1737. *LEPRARIA*. *Fructification* in a powdery or floccular substance, mostly clothing a thin crust,

1938. LICHEN. *Fructification* tubercles or shields on a variously constructed frond.
1939. ULVA. *Frond* membranaceous or gelatinous: *seeds* solitary, scattered through its substance under the cuticle.
1940. TREMELLA. *Frond* gelatinous, concealing the fructification.
1941. RHIZOMORPHA. *Frond* much branched, creeping, horny, concealing the seeds.
1942. FUCUS. *Seeds* produced in clustered tubercles which burst at their summits.
1943. CONFERVA. Simple or branched *fibres*: *seeds* produced in round solitary closed tubercles, projecting from the fibres, but united to them.
1944. BYSSUS. *Plant* consisting of downy or powdery fibrils: *fructification* unknown.

ORDER V. FUNGI.

Herb o: fructification in a more or less spongy body.

1945. AGARICUS. *Fungus* with gills underneath.
1946. MERULIUS. *Fungus* with veins underneath.
1947. BOLETUS. *Fungus* with pores underneath.
1948. THÆLÆPHORA. *Fungus* warty underneath.
1949. HYDNUM. *Fungus* prickly underneath.
1950. PMALLUS. *Fungus* smooth underneath, cellular above.
1951. HELVELLA. *Fungus* turbinate, plaited, wrinkled.
1952. ATRACTOBOLUS. *Fungus* sessile, cupular, with a lid, ejecting fusiform vesicles bearing the seeds.
1953. TYMPANIS. *Fungus* cup-shaped; the cupola with a curtain above: *seeds* dry, mouldering to powder.
1954. MYROTHECIUM. *Fungus* cup-shaped; the cupola with a curtain above: *seeds* rather viscid.
1955. XYLOSTROMA. *Fungus* expanded, coriaceous, smooth, equal: *seeds* globular, very minute, seated within the fibres of the fungus.
1956. HELOTIUM. *Fungus* with a fleshy membranaceous convex-hemispherical cup, bearing the naked seeds underneath.
1957. CLAVARIA. *Fungus* elongated, erect, clavate, emitting the seeds from every part of its surface.
1958. CLATHRUS. *Fungus* roundish, concealed with fleshy branches interwoven with each other.
1959. PEZIZA. *Fungus* concave: *seeds* contained in the cup.
1960. VOLUTELLA. *Fungus* salver-shaped, on a short setaceous stalk: upper surface of the cap dotted and umbilicate: the margin at first revolute: *seeds* similar.
1961. EPICHRYSUM. *Fungus* rounded and concave: *seeds* globular, tailless, affixed by a branched thread creeping within.
1962. CYATHUS. *Fungus* campanulate or cylindrical, bearing lentiform capsules within.

1963. ASCOBOLUS. *Fungus* hemispherical: *vesicles* oblong, scatteringly and slightly immersed on the disk, elastically ejecting the seeds.
1964. THELEOBOLUS. *Fungus* sessile, gelatinous, solid, ejecting a gelatinous substance bearing the seeds.
1965. SPHÆROBOLUS. *Fungus* sessile, globular-concave, opening in a radiate manner, and ejecting a globular capsule.
1966. PILOBOLUS. *Fungus* on a capillary stalk inflated and watery at top: *cap* hemispherical, elastically ejecting the seeds.
1967. PUCCINIA. *Fungus* cylindrical, filled with tailed seeds, disposed in a radiate manner, and escaping elastically.
1968. LYCOPERDON. *Fungus* becoming powdery and fibrous within: *seeds* attached internally to the fibres.
1969. SPUMARIA. *Follicles* branched, filled internally with seminiferous fibres, covered with a cellular branny bark.
1970. FULIGO. *Fungus* with a cellular-fibrous bark; the fibres penetrating in a reticulate manner through a seminal mass.
1971. STEMONITIS. *Fungus* covered with a fugacious or membranaceous bark, filled with seminiferous fibres elastically expanding themselves.
1972. MICROCARPON. *Fungus* with a membranaceous case opening irregularly, filled with seminiferous filaments reticulately compact and fixed to the base.
1973. CRIBRARIA. *Fungus* with the case furnished with a double membrane; the outer thin and fugacious; the inner reticulate: *seeds* without filaments, ejected through the foramina.
1974. RETICULARIA. *Fungus* roundish, furnished with a case filled with seeds dispersed among reticulate filaments.
1975. TUBIFERA. *Fungus* furnished with cases superimposed on an expanded membrane, connected with each other, and filled with nearly naked seeds.
1976. ÆCIDIUM. *Fungus* furnished with membranaceous cases, glabrous both sides, filled with naked seeds not cohering.
1977. SPHÆRIA. *Fungus* furnished with cases, filled with roundish naked gelatinous seeds.
1978. HISTERIUM. *Fungus* sessile, hollow, with a transverse cleft at top: *seeds* globular, tailless, covering the disk.
1979. VERMICULARIA. *Capsule* globular, sessile, filled with loose worm-shaped, seminiferous bodies.
1980. PYRENium. *Fungus* globular, sessile, very entire, inclosing naked conglobate seeds like a nucleus.
1981. TUBER. *Fungus* nearly globular, fleshy; the flesh distinguished internally with veins.
1982. SCLEROTIUM. *Fungus* quite simple, globular oblong, tough, hardish, gaping a little at length in the centre, covered with an inseparable bark never opening above.

1983. *URED.* *Powder* mealy, destitute of a case, effused under the cuticles of leaves and stems, bursting at last with an even margin.
1984. *TUBERCULARIA.* *Fungus* gelatinous: *cap* tubercled: *stalk* thick, filled, closely appressed, bearing the *seeds* on the upper surface.
1985. *SPERMODERMIA.* *Fungus* quite simple, globular, sessile, spongy: *seeds* crowded, supplying the place of a bark.
1986. *ACROSPERMUM.* *Fungus* quite simple, nearly erect, emitting the *seeds* exteriorly from the tip.
1987. *STILBUM.* *Fungus* aggregate, gelatinous, on a stalk: *head* diaphanous, shining, solid, permanent, bearing the seeds externally.
1988. *ASCOPHORA.* *Fungus* erect, on a setaceous stalk: *head* globular-oblong, inflated, opaque, elastic, bearing the seeds eternally.
1989. *CHORDOSTYLUM.* *Fungus* very tenacious, on a very long tenacious slightly branched stalk; *head* globular, somewhat deciduous, bearing the seeds.
1990. *MUCOR.* *Fungus* fugacious: *heads* at first diaphanous, becoming opaque, fixed to simple or branched stalks.
1991. *HYDROPHORA.* *Fungus* globular, watery, on a nearly erect capillary stalk.
1992. *PERICONIA.* *Fungus* globular: *seeds* sessile, deciduous, every where clothing the head and stalk.
1993. *GRANULARIA.* *Fungus* roundish, filled with granulations immersed in a mucilage,
1994. *MEDUSULA.* *Fungus* solid, globular, on a stalk, crowded: *seeds* external, filiform, flexile, colliquescent.
1995. *MONILIA.* Consisting of moniliform filaments clustered into a head.
1996. *MUCILAGO.* Consisting of most simple fugacious filaments.

ORDER I. FILICES.

1869. ACROSTICHUM. *Fructification* covering the whole under surface of the frond: *involucres* 0.

A. *Frond undivided.*

- citrifolium*. Fronds lance-ovate, veined; nearly sessile: shoot rooting. *Plum. fil. tab. 116.*
- longifolium*. Fronds linear lanceolate, margined; the fertile-ones spirally convolute. *Plum. fil. tab. 135.*
- latifolium*. Fronds margined, barren ones broad lanceolate; fertile-ones ovate-lanceolate. *Swartz. ind. occ.*
- simplex*. Barren-fronds lanceolate; pointed; fertile-ones linear lanceolate. *Swartz. ind. occ.*
- petiolatum*. Barren-fronds linear-lanceolate, with a scaly rib; stalk scaly; fertile-ones linear. *Swartz. ind. occ.*
- Lingua*. Fronds oblong, obtuse, ferruginous-downy underneath. shoot rooting. *Thunb. Jap. tab. 33.*
- villosum*. Fronds broad-lanceolate, slightly crenulate, villous both sides. *Plum. fil. tab. 127. D.*
- hirtum*. Fronds oblong-lanceolate, pointed both ways, above and the stalks chaffy-hairy; the margin crenulate and dotted; fertile-ones ovate-lanceolate. *Swartz. ind.*
- muscosum*. Fronds scaly; barren-ones ovate-lanceolate, obtuse; fertile-ones ovate-lanceolate. *Plum. fil. t. 139.*
- squamosum*. Fronds linear-lanceolate, both surfaces and stalks chaffy-scaly; the chaff ciliate. *Swartz.*
- crinitum*. Fronds broad-ovate, obtuse, rough-haired, bearded above. *Plum. fil. tab. 125.*
- heterophyllum*. Barren-fronds roundish, fertile-ones linear. *Rheed. Mal. 12. tab. 29.*

B. *Frond divided.*

- peltatum*. Fronds distinct: barren-ones dichotomously radiate at top, with linear segments; fertile-ones kidney-form, crenulate. *Plum. fil. tab. 50. A.*
- biforme*. Fronds linear-forked, pendulous; barren-segments linear, fertile-ones kidney-form, entire; the primordial-one large, erect, oblong, slightly lobed. *Mull. naturf. t. 3.*
- alcicorne*. Fronds palmate, erect; divisions forked, lanceolate, obtuse, fruiting towards the tips; primordial-ones kidney-form, lobed, veined. *Pluk. Alm t. 429. f. 2.*

C. *Frond pinnate.*

- quercifolium*. Fronds distinct, ternate: terminal leaflets of the barren-ones ovate, cut, lateral-ones 3-lobed: leaflets of the fertile-ones linear, slightly repand. *Jacq. coll. 3. tab. 20. f. 3.*

auritum. Fronds distinct, ternate: barren-leaflets pinnatifid, with a larger middle-one; segments of the lateral-ones elongated downwards at the base, of the fertile-ones doubly pinnate and linear.

Swartz. spec.

aureum. Divisions tongue-shaped, glabrous. *Plum. fil. tab. 104.*

punctulatum. Divisions lanceolate, entire, dotted above; the lowermost auricled, terminal-ones united at the base. *Linn. sup.*

sorbifolium. Fronds distinct: divisions oblong, acute, serrulate: stalks scaly, from a climbing shoot. *Plum. fil. tab. 117.*

trifoliatum. Divisions ternate, lanceolate. *Plum. fil. 144.*

bifurcatum. Fronds distinct: barren divisions linear-lanceolate; fertile-ones ovate, bifid and simple. *Jacq. coll. 3. t. 20. f. 2.*

alcinum. Fronds distinct; divisions cut; upper-ones untied, decurrent, lower-ones semipinnatifid. *Plum. fil. tab. 10.*

D. Frond somewhat double pinnate

cruciatum. Divisions opposite, lanceolate; the lowermost appendaged in a cruciate manner. *Plum. fil. tab. 48. B.*

Marantæ. Subdivisions oppositely united, very hairy underneath, slightly toothed at the base. *Pluk. alm. t. 281. f. 4.*

velleum. Subdivisions heart-ovate, cut at the side, very hairy underneath. *Ait. Kew. 3. p. 457.*

sulphureum. Divisions doubly pinnatifid; segments wedge-shaped, retuse, serrate at top. *Swartz. ind. occ.*

Calomelanos. Divisions tapering, subdivisions lanceolate, pointed, cut-serrate: fertile-ones nearly entire.

Sloan. Jam. 1. t. 53. f. 1. Plum. fil. t. 40. younger.

chrysophyllum. Subdivisions oblong, pinnatifid; segments obovate, crenated at top. *Rumph. Amb. 6. t. 34. f. 2.*

1870. MENISCIUM. Fructification in nearly parallel lunules, with the veins of the frond intervening: involucre 0.

reticulatum. Fronds pinnate. *Jacq. coll. 2. t. 3. f. 2. Plum. fil. t. 107.*

triphyllum. Fronds trifoliate. *Swartz. spec.*

1871. HEMIONITIS. Fructification in decussate forked or reticulate lines: involucre 0.

A. Frond simple.

lanceolata. Fronds lanceolate, entire. *Plum. fil. t. 127.*

reticulata. Fronds elliptic, somewhat falcate, entire. *Forst.*

palmata. Fronds palmate, hairy. *Plum. fil. t. 151.*

B. Frond compound.

rufa. Fronds pinnate; divisions oblong, nearly entire, pubescent.

Sloan. Jam. 1. t. 45. f. 1.

acrostichoides. Fronds pinnate, distinct; divisions broad lanceolate, undulately crenate, tapering to the top: fructification confluent. *Afzel.*

japonica. Fronds doubly pinnate: subdivisions ovate-lanceolate, entire. *Thunb. Jap.*

1872. GRAMMITIS. *Fructification* in straight scattered lines: *involucres* 0.

linearis. Fronds linear, pointed, entire: stalks bristly.

Jacq. ic. rar. 1. tab. 199.

marginella. Fronds lance-lingulate, edged with brown: stalks very short, slightly ciliate. *Swartz. ind. occ.*

lanceolata. Fronds lanceolate, pointed, tapering to the base: lines of fructification nearly parallel with the rib. *Swartz.*

serrulata. Fronds linear, toothed, from a rooting shoot. *Swartz.*

graminoides. Fronds linear, undivided and forked at top: line of fructification solitary, terminal. *Swartz spec.*

myosuroides. Fronds pinnatifid: segments semiovate, obtuse; upper-ones united into a linear fructiferous tip. *Swartz.*

1873. POLYPODIUM. *Fructification* in roundish scattered dots, not marginal: *involucres* 0. *Polypody.*

A. *Frond simple.*

piloselloides. Fronds hairy; barren-ones ovate; fertile-ones lanceolate: dots of fructification solitary: shoot rooting. *Plum. fil. t. 118.*

lycopodioides. Fronds lanceolate, glabrous: dots solitary: shoot scaly, rooting. *Plum. fil. t. 119.*

stellatum. Fronds lance-linear, obtuse, hoary underneath: dots solitary: shoot hairy, rooting. *Vahl symb. 3.*

serpens. Fronds lance-linear, slightly waved, glabrous: dots solitary: shoots hairy, rooting. *Plum. fil. tab. 121.*

heterophyllum. Fronds crenate, glabrous; barren-ones roundish, sessile; fertile-ones lanceolate: dots solitary: shoots rooting. *Plum. fil. tab. 120.*

lanceolatum. Fronds lanceolate, glabrous: dots solitary. *Plum. fil. tab. 137.*

simplex. Fronds elliptic-lanceolate, slightly repand, glabrous: dots solitary. *Swartz. spec.*

angustifolium. Fronds linear-lanceolate, very long, rigid, convex on the margin: dots solitary. *Swartz. ind. occ.*

lineare. Fronds linear-lanceolate, entire or forked, glabrous: dots solitary. *Thunb. ic. Jap. Dec. 2.*

surinamense. Fronds linear, remotely serrulate, glabrous: dots solitary. *Jacq. collect. 3. t. 21. f. 4.*

crassifolium. Fronds broad-lanceolate, glabrous: dots in rows.

Plum. fil. tab. 123.

immersum. Fronds oblong lanceolate or oblong, obtuse, acute at the base, glabrous: dots in rows, immersed. *Vahl. 3.*

phillitidis. Fronds lanceolate, glabrous, margined: dots scattered:

Plum. fil. tab. 130.

ensatum. Fronds elliptic-ensiform, glabrous, with an entire or repand margin: dots scattered. *Thunb.*

repens. Fronds lanceolate, pointed, glabrous, with undulate veins: dots scattered. *Plum. fil. tab. 184.*

plantagineum. Fronds lance-oblong, veined, glabrous: dots scattered.

Jacq. Collect. 2. tab. 3. fig. 1.

acrostichoides. Fronds linear-lanceolate, hoary-downy underneath, from a scaly rooting shoot: dots scattered.

Rheed. Mal. 12 tab. 74

stigmatum. Fronds lance-oblong, pointed, dotted: dots of fructification contiguous, scattered, covered with ferruginous down: shoot rooting. *Pet. Gaz. t. 61. f. 3?*

polycarpon. Fronds lance-oblong, pointed, reticulate with veins underneath: dots contiguous, scattered. *Swartz. spec.*

punctatum. Fronds heart-lingulate, pointed, dotted above: dots of fructification contiguous. *Swartz spec.*

tricuspe. Fronds halbert-shaped, the middle-lobe lanceolate: dots scattered, clothed in hoary down. *Swartz. sp.*

comosum. Fronds lanceolate, glabrous, many-cleft at top: dots scattered. *Plum. fil. tab. 131.*

trifurcatum. Fronds lanceolate, glabrous, repand-sinuate, 3-lobed at the tip. *Plum. fil. tab. 138.*

bastatum. Fronds oblong, halbert-shaped or 3-lobed: dots solitary.

Thunb. flor. Jap.

phymatodes. Fronds simple 3-cleft or 5-lobed, with lanceolate segments: dots somewhat scattered. *Jacq. ic. rar.*

B. Fronds pinnatifid.

enisforme. Fronds 3-cleft or pinnatifid, with linear obtuse segments: dots solitary. *Jacq. collect. 2. t. 22. f. 4.*

scandens. Segments of the fronds linear, obtuse, undulate, remote: shoots chaffy, rooting. *Forst. Austr.*

aureum. Segments oblong, distant, veined; the lowermost spreading: terminal one very large. *Plum. fil. tab. 76.*

pustulatum. Segments oblong, pointed, entire; terminal ones becoming gradually less. *Forst. Austr.*

quercifolium. Fertile-fronds pinnatifid, with lanceolate segments; barren-ones sessile, ovate, sinuate. *Rumph. Amb. 9. t. 36.*

crispatum. Segments semiorbicular, crenate. *Plum. t. 102. B.*

suspensum. Segments semiovate, acutish. *Plum. fil. t. 87.*

asplenifolium. Segments semiovate, obtuse, hairy, falcate downwards at the base. *Plum. fil. t. 102. A.*

scolopendroides. Segments rather obtuse, the lowermost remote.

Pluk. Alm. tab. 290 f. 1.

incisum. All the segments united; rounded at top: frond nearly sessile.

Plum. fil. tab. 91.

pendulum. Segments oblong; obtuse: frond lax, sessile. *Swartz. ind.*

trichomanoides. Segments semiovate, obtuse, a little hairy; dot of fructification solitary: frond subsessile. *Swartz. ind.*

vulgare. Segments linear-oblong, obtuse, slightly ferrate: root scaly. *Eng. Bot. t. 1149. Curt. Lond.*

virginianum. Segments oblong, obtuse, slightly ferrate: root smooth.

Plum. fil. tab. 77.

Olites. Segments alternate, lanceolate, obtuse; rather remote.

Plum. fil. tab. 85.

pedunculatum. Segments approximate, parallel, sword-shaped, acute, horizontal: root naked. *Plum. fil. tab. 83.*

taxifolium. Segments approximate, parallel, sword-shaped, acute, ascending: root rough-haired. *Plum. fil. tab. 89.*

Struthionis. Segments approximate, sword-shaped; repand; horizontal. *Plum. fil. tab. 82.*

curvatum. Segments linear-lanceolate, somewhat falcate, ascending, remote: frond subsessile. *Swartz. ind.*

squamatum. Segments lanceolate, horizontal, distant, rough.

Plum. fil. tab. 79.

loriceum. Segments lanceolate, repand, horizontal, distant, smooth.

Plum. fil. tab. 78.

incanum. Segments lanceolate, obtuse, entire, spreading, and with the stalks squamulose beneath. *Pluk. alm. t. 289. f. 1.*

C. Frond pinnate.

hastatifolium. Divisions lanceolate obtuse, entire, with a single tooth at the base each side; the lower-ones triangular, minute.

Swartz. ind. occ.

reptans. Divisions somewhat hearted, ovate, obtuse, crenate, slightly auricled at the base: frond creeping, rooting at top.

Pluk. Alm. tab. 286. f. 2.

ferrulatum. Divisions lanceolate, a little tapering, tooth-ferrate; obtusangled at the base: dots solitary. *Sloan. Jam. 1. t. 43. f. 1.*

repandum. Divisions ovate, obtuse, with a convex repand pubescent margin: dots solitary. *Swart. ind. occ.*

asplenioides. Divisions lanceolate, obtuse, crenate, somewhat hearted at the base: dots scattered. *Sloan. t. 43. f. 2.*

obliteratum. Divisions broad-lanceolate, tapering, crenate; crenatures of the top and base obliterated. *Swart. ind.*

- crenatum*. Divisions nearly opposite, oblong-lanceolate, crenate-ferrate: dots scattered. *Plum. fil. t. 111.*
- rigidulum*. Divisions lanceolate, obtuse, ferrate, reticulate with veins: dots solitary. *Swartz spec.*
- triseriale*. Divisions broad-lanceolate, pointed, entire, rounded at the base, veined: dots of fructification in a triple longitudinal row. *Swartz spec.*
- taniatum*. Divisions elliptic-lanceolate, pointed, entire: dots solitary. *Swartz. spec.*
- tenellum*. Divisions remotely alternate, lanceolate, tapering, undulate: shoot rooting. *Swartz spec.*
- fraxinifolium*. Divisions lanceolate, pointed, undulate, with transverse lines. *Jacq. ic. rar 3. 639.*
- diffimile*. Divisions lanceolate, acute, pubescent, confluent at top; lower ones distinct, united. *Pluk Alm. t. 288. f. 1.*

D. *Fronde doubly pinnatifid or doubly pinnate.*

- **arvonicum*. Fronds mostly doubly pinnatifid, hairy underneath: divisions wedge-shaped, 3-5-lobed; the lobes crenulate: dots confluent. *Bolton. fil. t. 42.*
- ilvense*. Fronds doubly pinnatifid: divisions oblong, obtuse, hairy underneath; segments ovate, entire: dots nearly marginal, confluent. *Linn.*
- leptophyllum*. Fronds doubly pinnate, quite glabrous: subdivisions wedge-form, rounded-lobed, with a single oblong dot on each lobe. *Barr. rar. t. 431.*
- latifolium*. Fronds doubly pinnate: subdivisions pinnatifid or lobed; lobes repand, crenate: stalk quite glabrous, shining. *Swartz. spec.*
- sanctum*. Fronds doubly pinnate: divisions linear-lanceolate; upper-subdivisions united; lower-ones linear, obtuse, crenate. *Pluk. Alm. tab. 283.*
- **Phegopteris*. Fronds nearly doubly pinnatifid: terminal divisions confluent, the lower-pair reflected; subdivisions of the base rhombic, united to the rachis. *Bolt. fil. t. 20.*
- lunulatum*. Fronds doubly pinnate: divisions ferrate and setaceous at the tip: subdivisions linear-oblong, falcate: stalk rough. *Swartz. spec.*
- glaucum*. Fronds 2-parted: doubly pinnatifid, glaucous underneath: divisions ensiform, with lanceolate obtuse, entire segments. *Thunb. Jap.*
- dichotomum*. Fronds forked, nearly doubly pinnate, glaucous underneath: subdivisions lanceolate, entire, parallel: lowest somewhat pinnatifid, deflected. *Thunb. Jap. t. 37.*

furcatum. Fronds forked, nearly doubly pinnate, semipinnate below the forks; subdivisions linear-lanceolate, entire, parallel.
Plum. fil. tab. 28.

E. Frond more than decomposed.

armatum. Leaflets about doubly pinnate; subdivisions united at the base linear, crenulate, hairy underneath: dots of fructification crowded: trunk arboreous, prickly. *Swart. ind. occ.*

pruinatum. Leaflets tripinnatifid, glaucous underneath: divisions and subdivisions lanceolate; segments ovate, acute: trunk arboreous. *Swart. ind. occ.*

punctulatum. Leaflets doubly pinnatifid: divisions lanceolate, obtuse: segments ovate, rather obtuse; serrulate at top: stalk dotted, a little villous. *Swartz. ind. occ.*

effusum. Leaflets tripinnatifid, membranaceous: divisions and subdivisions lanceolate; segments serrulate: rachis margined. *Swart. ind. occ.*

* *Dryopteris*. Frond ternate, doubly pinnate, spreading and reflected: segments obtuse, slightly crenate: dots of fructification distinct.
Eng. Bot. t. 606.

* *calcareum*. Frond ternate, doubly pinnate, erect, rather rigid: segments obtuse, slightly crenate: dots of fructification confluent. *Eng. Bot. t. 1825.*

1874. ASPIDIUM. Fructification in roundish scattered dots, not marginal: involucre umbilicate, opening nearly all round.

A. Frond simple or trifoliate.

articulatum. Fronds elliptic, quite glabrous: dots of fructification catenulate, scattered: stalks jointed, from a creeping shoot.
Plum. fil. tab. 136.

pistillare. Fronds lanceolate, jointed, quite glabrous: dots of fructification solitary: stalk jointed, from a climbing branched shoot.
Swartz. spec.

trifoliata. Fronds heart-3-lobed or ternate; middle-one larger, lateral-ones auricled at the base. *Plum. t. 148.*

B. Frond pinnate.

* *Lonchitis*. Segments lunulate, ciliate serrate, declined: stalks scaly.
Bolton fil. t. 19.

mucronatum. Segments somewhat falcate, serrulate, auricled upwards at the base, spinulous at the tip: stalk or rachis scaly, hairy. *Sloan. Jam. 1. t. 36. f. 4. 5.*

falcatum. Segments broad hearted, falcate, pointed, entire: stalk scaly. *Thunb. Jap. t. 3, 5.*

- trapezoides*. Segments trapezio-oblong, crenate-ferrulate, striate, glabrous, auricled at the base upwards: stalk a little scaly. *Swartz. ind. occ.*
- triangulum*. Segments acutely triangular, toothed: dots of fructification solitary. *Plum. fil. tab. 72.*
- auriculatum*. Segments falcate-lanceolate, slightly ferrate, truncate at the base, auricled upwards; the terminal-ones fruiting. *Burm. Zeyl. tab. 44. f. 1.*
- rhizophyllum*. Segments ovate-deltoid; the upper-ones confluent into a tapering fructiferous rooting division. *Swartz.*
- semicordatum*. Segments lanceolate, parallel, nearly entire, obliquely hearted at the base, the lower lobe more gibbous: dots of fructification in 4 rows. *Plum. t. 113.*
- exaltatum*. Segments lanceolate; somewhat falcate, hearted at the base, gibbous upwards, slightly ferrulate: dots solitary. *Plum. fil. tab. 63.*
- cordifolium*. Segments parallel, oblong, obtuse, obscurely ferrate, a little hearted at the base, more gibbous upwards: dots solitary: rachis a little pubescent. *Plum. t. 71.*
- undulatum*. Segments lanceolate, falcate, hearted at the base, auricled upwards; remotely crenate and undulate on the margin: dots solitary. *Swartz. spec.*
- hirsutulum*. Segments oblong, lanceolate, obtusely ferrate, auricled upwards at the base: dots solitary: rib and stalk villous. *Forster.*
- biserratum*. Segments heart ensiform, slightly auricled upwards at the base, obtusely ferrate on the margin; the ferratures 2-toothed: dots solitary, towards the margin. *Swartz. spec.*
- unitum*. Segments ensiform, subpinnatifid, with semiovate obtuse nerved lobes; nerves or rachis pubescent. *Burm. Zeyl. tab. 44. f. 1.*
- Serra*. Segments ensiform, subpinnatifid, tapering, with semiovate acute nerved lobes. *Swartz. ind. occ.*
- pteroides*. Segments ensiform, rather remote, subpinnatifid, with ovate acute lobes, both sides and the rachis glabrous: dots nearly marginal. *Retz. obs. 6.*
- Davallioides*. Segments lanceolate, tapering to the top, subpinnatifid, with rather remote, obtuse lobes, terminated by a single dot of fructification. *Houtt. N. H. 2. t. 94. f. 3.*
- tetragonum*. Segments pinnatifid, lanceolate, horizontal, remote, with ovate rather oblong lobes: stalk square. *Swart.*
- sophoroides*. Segments ensiform, subpinnatifid, with ovate somewhat falcate acute lobes, the lowest longer. *Swart.*
- obtusatum*. Segments ensiform, sinuate-pinnatifid, with oblong obtuse lobes. *Swart. spec.*

attenuatum. Segments lance-linear, subpinnatifid, tapering, with ovate acute lobes falcate forwards. *Swart.*

invisum. Segments linear-lanceolate, pinnatifid, glabrous, with lance-falcate lobes, the lowest almost shorter. *Sloan. Jam. 1. tab. 51.*

patens. Segments linear-lanceolate, pinnatifid, tapering, pubescent underneath with oblong acute lobes, those of the base longer. *Sloan. Jam. 1. t. 52. f. 1.*

pennigerum. Segments linear-lanceolate, tapering, glabrous, pinnatifid, with ovate-oblong acute lobes, the lowermost equal. *Swart. spec.*

deltoideum. Lower segments abbreviated, oblong, triangular, entire, reflected. *Swart. ind. occ.*

molle. Segments lanceolate, pointed, pinnatifid, villous both sides, with oblong obtuse entire lobes, the lowermost nearly equal. *Jacq. ic. rar. Polypod.*

parasiticum. Segments lanceolate, acute, pinnatifid, pubescent both sides, with oblong obtuse entire segments, the lowest larger than the rounded upper-one. *Linn. Polypod.*

* *Oreopteris*. Segments lanceolate, pinnatifid, with lanceolate rather obtuse entire lobes, the lowermost longer: fructification nearly marginal. *Eng. Bot. t. 1019*

limbatum. Segments lanceolate, pointed, subpinnate, with oblong ferrate lobes, the lowest auricled: serratures fructiferous. *Swart. spec.*

marginale. Segments subpinnate, glabrous, with oblong entire lobes, sinuate-repand at the base: dots marginal. *Swart.*

fragrans. Segments approximate, somewhat pinnate, glabrous, with obtuse ferrate lobes: involucre of the fructification imbricate: stalk chaffy. *Linn. Polypod.*

varium. Segments somewhat pinnate; terminal ones simple; lowest doubly pinnatifid at the base. *Linn. Polypod.*

coriandrifolium. Segments heart-oblong, pinnatifid, with ovate crenate-repand pubescent lobes. *Pluk. t. 284. f. 5.*

cicutarium. Fronds ternate: leaflets doubly pinnatifid; segments decurrent, terminal ones confluent, lowest of the lateral ones at the base doubly pinnatifid and elongated, with lobe-cut-crenate lobes. *Pluk t. 298. f. 4.*

protensum. Fronds ternate: leaflets doubly pinnatifid, with obovate obsoletely crenate lobes; segments of the base of the lateral leaves longer downwards. *Swart spec.*

C. Fronds doubly or triply pinnate.

a. Involucre halved, kidney-form.

truncatulum. Divisions ensiform, pinnate; subdivisions rhombic-ovate, with an entire somewhat undulate margin, bearing the fructification towards the upper surface. *Houtt. 2. t. 100. f. 1.*

- eristatum*. Divisions somewhat pinnate, heart-oblong : subdivisions ovate, obtuse, cut, denticulate serrate : frond lance-ovate : stalk chaffy. *Aët. Holm.* 1787. t. 9.
- rigidum*. Divisions doubly pinnatifid, heart-lanceolate, with oblong obtuse segments toothed at top : frond ovate-lanceolate : stalk strigose. *Swart. spec.*
- * *aculeatum*. Divisions pinnate : subdivisions lunulate mucronate-toothed : stalk strigose. *Bolt. fil.* t. 26.
- * *lobatum*. Divisions pinnate, approximate : subdivisions rhombic-ovate, acute, ciliate spinous : stalk or rachis chaffy. *Pluk. phyt. tab.* 180. f. 3.
- aristatum*. Divisions pinnate : subdivisions rhombic-oblong, cut, with mucronate-serrate segments : stalk a little villous. *Swart. spec.*
- vestitum*. Divisions pinnate : subdivisions rhombic-ovate, slightly mucronate, cut-serrate ; the lowermost somewhat pinnate : stalk and rachis scarious scaly. *Forst.*
- * *dentatum*. Divisions remote, nearly pinnate : subdivisions ovate, obtuse, with an unarmed toothed margin. *Dicks. Crypt.* t. 7. f. 1.
- drepanum*. Divisions remote, alternate : subdivisions nearly opposite, lance-falcate, cut-denticulate, obtusely auricled upwards at the base : stalk and rachis chaffy. *Swart. spec.*
- * *spinulosum*. Divisions nearly pinnate : subdivisions decurrent, elliptic, acute, deeply serrate, spinulous ; stalk chaffy : rachis glabrous flexuous. *Eng. Bot. t.* 1460.
- * *dilatatum*. Divisions pinnate : subdivisions pinnatifid, cut-serrate, spinulous : rachis scaly : involucre circular. *Eng. Bot. tab.* 1461.
- * *Filix Mas*. Divisions pinnate : subdivisions oblong, obtuse, serrate at top : stalk scaly. *Eng. Bot. tab.* 1458.
- novæboracense*. Divisions pinnate : subdivisions oblong, very entire, parallel : stalk smooth. *Linn. Polypod.*
- elongatum*. Divisions pinnate, doubly pinnatifid below : subdivisions lanceolate, obtuse, with ovate denticulate segments. *Hort. Kew. Polypod.*
- lacerum*. Divisions pinnate : subdivisions lance-falcate, the lowermost somewhat auricled and slightly serrate, upper-ones confluent : stalk scaly. *Thunb. Jap.*
- * *pubescens*. Divisions pinnate, hairy : subdivisions lance-ovate, slightly cut, acute ; the outermost confluent. *Linn.*
- setosum*. Divisions doubly pinnatifid : leaflets lanceolate, with ovate acute segments : stalk and rachis bristly. *Thunb. Jap.*
- * *villosum*. Decompound : leaflets doubly pinnate, hairy ; subdivisions oblong, obtuse ; terminal-ones pointed ; lower-ones somewhat pinnatifid with ovate segments. *Plum. t.* 27.

- hirtum*. Decompound: leaflets opposite, oblong, pointed, almost doubly pinnate: divisions alternate; subdivisions ovate, lower-ones cut: stalk hairy. *Swart. Spec.*
- bispidum*. Decompound: leaflets about doubly pinnate, tapering, hairy: divisions margined; subdivisions lanceolate, cut-ferrate: stalk rough, bristly. *Swart. Spec.*
- denticulatum*. More than decompound: leaflets about 4 times pinnate, glabrous: subdivisions wedge-ovate, cut, with spinulous denticles. *Swart. ind. occ.*
- coriaceum*. Decompound: leaflets coriaceous, glabrous, pinnate: divisions oblong-lanceolate, pinnatifid below, with ovate segments, the lowest distinct and crenate: stalk rough. *Swart. ind. occ.*
- b. *Involucres lateral.*
- * *Thelypteris*. Divisions pinnatifid: subdivisions ovate, obtuse, slightly crenate: dots confluent. *Eng. Bot. t. 1018.*
- * *fontanum*. Divisions somewhat pinnate, alternate, triangular, obtuse; lobes sharply toothed at top. *Pluk. t. 89 f. 3.*
- * *fragile*. Divisions doubly pinnatifid, opposite: subdivisions ovate, cut, with obovate toothed segments. *Flor. Dan. t. 401. Bolt. fil. t. 27.*
- * *regium*. Divisions remote, pinnate: subdivisions lobed, obtuse, unarmed, entire at the margin: rachis winged. *Eng. Bot. t. 163.*
- rheticum*. Divisions pinnate: subdivisions remote, oblong, pointed, sharply ferrate: rachis winged. *Linn. Polypod.*
- bulbiferum*. Divisions pinnate, rather remote: subdivisions oblong, ferrate, bulbiferous underneath; the lowermost pinnatifid. *Moris. 14. t. 13 f. 10.*
- * *Felix foemina*. Divisions pinnatifid, lanceolate: subdivisions lanceolate, acute, ferrate, unarmed: stalk smooth; involucre kidney-form. *Eng. Bot. t. 1459.*
- umbrosum*. Divisions doubly pinnatifid, opposite: subdivisions ovate, pointed, with oblong obtuse ferrate segments. *Hort. Kew. Polypod.*
- axillare*. Divisions doubly pinnatifid, alternate: subdivisions linear-lanceolate, ferrate at top. *Hort. Kew. Polypod.*
- amulum*. Decompound, triangular: leaflets tripinnatifid: subdivisions oblong-linear, cut, the segments denticulate at top. *Swart. Spec.*
- alpinum*. Decompound: leaflets tripinnate, remote: divisions remote: subdivisions wedge-obovate, cut, with obtuse subbifid segments. *Seg. Veron. suppl. t. 1. f. 3.*
- capense*. Decompound: leaflets nearly bipinnate: divisions and subdivisions sessile, lanceolate, ferrate: dots mostly solitary at the base. *Linn. Polypod.*

montanum. More than decomposed : leaflets 3 together, tripinnatifid : ultimate divisions somewhat falcate, obtuse, toothed at top. *Plum. fil. t. 89. f. 4.*

1875. ASPLENIUM. *Frustrification* in straight scattered lines : *involucre* originating laterally from a vein opening towards the tip. *Spleen wort.*

A. *Frond undivided.*

lanceum. Frond elliptic, glabrous : stalk round, scaly. *Thumb ic. rhizophyllum*. Frond heart-ensiform, filiform and rooting at top.

Pluk. alm. tab. 105. f. 3.

Nidus. Frond nearly sessile, broad lanceolate, tapering and rooting at top. *Sloan. Jam. 1. t. 26 f. 1.*

serratum. Frond lanceolate, serrate, subsessile. *Plum. t. 124.*

bifolium. Fronds binate : leaflets united at the base, lanceolate, slightly sinuate. *Plum. fil. tab. 133.*

B. *Frond divided.*

* *septentrionale*. Stalk naked, glabrous, 3-parted at top ; segments alternate, linear, toothed at top. *Eng. Bot. t. 1017.*

australe. Stalks naked, glabrous, forked at top : segments subulate, curved to one side. *Linn. Acrost.*

radiatum. Stalks naked, glabrous, radiately forked at top, with linear acute straight segments. *Vahl. symb. 1. t. 25.*

Hemiomitis. Fronds heart-halbert-shaped ; 5-lobed, *Linn.*

C. *Frond pinnatifid.*

* *Caterach*. Fronds pinnatifid, with alternate confluent obtuse divisions, scaly underneath. *Eng. Bot. t. 1244.*

obtusifolium. Fronds somewhat pinnate, with alternate obtuse sinuate decurrent divisions. *Plum. fil. t. 67.*

D. *Frond pinnate.*

pumilum. Fronds ternate or pinnate ; leaflets 3-parted, lobed.

Plum. fil. t. 66. A. Jacq. Collect. 2. t. 2. f. 3. 4.

marginatum. Divisions opposite, ovate-lanceolate, slightly margined.

Plum. fil. t. 106.

decussatum. Divisions somewhat hearted, broad lanceolate, serrate, obtusely auricled each side of the base. *Swart.*

salicifolium. Divisions somewhat trapezio-lanceolate, falcate, unequally crenate, obtusely rectangular upwards at the base.

Plum. fil. t. 60.

cultrifolium. Segments falcate-lanceolate, cut-setrate, angular downwards at the base ; lower-ones auricled upwards. *Plum. fil.*

tab. 59.

lineatum. Segments broad-lanceolate, pointed, ferrate, with lines, rectangular upwards at the base: lines of fructification decussately parallel. *Swart*.

erosum. Segments trapezio-lanceolate, somewhat falcate, crenate-ferrulate, auricled upwards at the base. *Linn*.

dimidiatum. Segments halved, trapezio-oblong, pointed, with jagged ferratures. *Swart. ind. occ.*

polyodon. Segments trapeziform, pointed, doubly toothed. *Forst*.

macrophyllum. Segments trapeziform, pointed, cut-ferrate, petioled: lines of fructification root-parallel, very long.

auritum. Segments lanceolate, cut-ferrate, auricled upwards at the base. *Sloan. Jam. 1. tab. 33. f. 2.*

compressum. Segments oblong-lanceolate, pointed, ferrate, connivent upwards at the base with a lobe, decurrent downwards: margined rachis and stalk compressed. *Swart*.

falcatum. Divisions somewhat trapezio-lanceolate, falcate, tapering to the top, cut ferrate. *Burm Zeyl. t. 43.*

tenerum. Divisions rhombic-oblong, obtuse, cut-ferrate. *Forst*.

lunulatum. Divisions rhombic-ovate, falcate, obtuse, crenulate.

Thunb prodr.

obtusatum. Divisions oblong, obtuse, ferrate, obliquely truncate at the base: lines of fructification parallel.

obliquum. Divisions trapezio-oblong, pointed, obtusely ferrate: stalks a little scaly. *Forst*.

lucidum. Divisions elliptic-pointed, ferrate: lines of fructification decussately parallel. *Forst*.

ebeneum. Divisions lanceolate, somewhat falcate, ferrate, auricled at the base: stem quite smooth. *Ait. Kew.*

* *marinum*. Segments obliquely ovate, obtuse, ferrate, lobed upwards at the base. *Eng. Bot. t. 392.*

polypodioides. Segments oblong, slightly ferrate, obtusely auricled each side at the base; lower-ones shorter.

Pluk. phyt 287. f. 2.

dentatum. Segments rhombic-ovate, obtuse, crenate or toothed.

Plum. fil. tab. 101.

* *viride*. Segments alternate, elliptic-roundish, crenate: rachis flattened underneath. *Bolt. fl. t 14.*

monanthemum. Segments trapeziform, obtuse, crenate upwards: line of fructification solitary. *Smith. ined. t. 73.*

refectum. Segments trapeziform, pointed, cut-crenate, entire behind. *Smith. ined. t. 72.*

* *Trichomanes*. Segments roundish, crenate. *Eng. Bot. t. 576.*

incisum. Segments roundish, cut, acutely toothed. *Thunb. Jap.*

E. Frond doubly pinnatifid or doubly pinnate.

- ambiguum*. Fronds doubly pinnate, pinnate at top: subdivisions oblong-lanceolate, auricled each side at the base, serrate: lines of fructification decussating at the transverse veins each side. *Swart. spec.*
- acrostichoides*. Fronds doubly pinnatifid: divisions ensiform, with ovate acute subserrate segments: lines of fructification transverse, crowded. *Swart. spec.*
- cordatum*. Fronds pinnate and doubly pinnatifid, chaffy underneath: divisions hearted, with rounded crenate segments. *Thunb. prodr.* Acrost.
- friatum*. Fronds doubly pinnatifid: divisions lanceolate, with oblong obtuse serrate segments, the terminal one pointed. *Plum. fil. t. 18. 19.*
- costale*. Fronds doubly pinnatifid: divisions lanceolate, with lance-falcate acute serrulate segments: lines of fructification near the rib each side. *Swart.*
- japonicum*. Divisions cut-pinnatifid, with acute serrulate segments: stalk scaly. *Thunb. jap.*
- dissertum*. Divisions lanceolate, tapering-linear and somewhat pinnatifid at the tip; segments 2-toothed: stalk smooth. *Swart. ind.*
- caudatum*. Divisions pinnatifid, linear-lanceolate, tapering-setaceous at top, with cut serrate segments: stalk hairy. *Forst.*
- premarsum*. Divisions pinnatifid, wedge-oblong; segments jagged-toothed at top: rachis hairy. *Swart. ind.*
- furcatum*. Divisions somewhat pinnate; subdivisions wedge-shaped, trifid at top, with acute or toothed segments. *Thunb. prodr.*
- * *lanceolatum*. Divisions alternate, pinnate, ovate-lanceolate: subdivisions obovate, sharply toothed. *Eng. Bot. t. 240.*
- squamisum*. Divisions pinnate: subdivisions ovate, pointed, sinuate: stalk or rachis scaly. *Plum. fil. tab. 103.*
- bulbiferum*. Divisions pinnate, margined: subdivisions decurrent, oblong, cut-serrate, proliferous at top. *Forst.*
- rhizophorum*. Divisions pinnate: subdivisions rhombic-ovate, toothed, somewhat auricled at the base: fronds remotely pinnate and rooting at top. *Linn.*
- affine*. Divisions pinnate: subdivisions rhombic-ovate, rather acute, serrate-toothed: lower ones auricled at the base: frond tapering at top. *Swart. spec.*
- cuneatum*. Divisions pinnate; lowermost opposite: subdivisions wedge-shaped, obtuse rounded and cut-serrate at top. *Sloan. Jam. 1. tab. 46. f. 2.*

* *Adiantum nigrum*. Frond alternately tripinnate: subdivisions ovate-lanceolate, cut-serrate. *Bolton. fil. t. 17.*

fragrans. Fronds nearly tripinnate: subdivisions lanceolate, serrate at top. *Swart. ind. occ.*

* *Ruta muraria*. Frond alternately decompose: subdivisions rhombic, wedge-form, spread, eroded at top. *Eng. Bot. t. 150.*

* *alternifolium*. Frond alternately pinnate: subdivisions wedge-form, erect, eroded at top. *Breyn. cent. 1. t. 97.*

cuspidatum. Frond elongated, alternately decompose: subdivisions lanceolate, cuspidate; nearly entire: stalk glabrous, filiform. *Lam.*

1876. DAREA. *Fructification* in scattered nearly marginal lines: *involucre* originating laterally from a vein, opening towards the margin.

flaccida. Frond pinnate: divisions elliptic-lanceolate, cut serrate.

Aët. Petrop. 9. t. D. f. 1. 2.

auriculata. Frond pinnate, ensiform: divisions oblong, obtuse, cut, with linear segments, the lowest bifid-auricled. *Aët. Petrop. 9. t. E. f. 2.*

Odontites. Frond doubly pinnatifid: subdivisions lanceolate, acute, lower-ones cloven. *Aët. Petrop. 9. t. E. f. 1.*

rhizophylla. Frond doubly pinnate: subdivisions distinct, obovate; somewhat falcate, primordial-ones deltoid, lobed.

Smith. ic. ined. tab. 50.

fulcata. Frond tripinnatifid, bipinnatifid at top: subdivisions lanceolate, obtuse, scatteredly 2-parted. *Aët. Petrop. 6. t. 7. f. 1. 2. 9. t. F. f. 1.*

cicutaria. Frond nearly tripinnate; subdivisions ovate, with lanceolate united segments, the primordial-ones wedge-shaped and cut.

Aët. Petrop. 9. t. G. f. 1. F. f. 2.

microphylla. Frond tripinnate: subdivisions obovate, primordial-ones obcordate and lobed. *Swart. ind. occ.*

vivipara. Frond tripinnate: subdivisions filiform. *Aët. Petrop. 6. p. 11. tab. 7. f. 3.*

japonica. Frond tripinnate, pinnate at top: subdivisions lanceolate, acute, cut or entire. *Aët. Pet. 9. t. G. f. 2.*

1877. SCOLOPENDRIUM. *Fructification* in scattered double lines between 2 veins: *involucres* originating from the surface, longitudinally incumbent on each other, opening by a longitudinal future.

* *vulgare*. *Scelopendrium*. *Eng. Bot. tab. 1150. Hart's tongue.*

1878. DIPLAZIUM. *Fructification* in scattered double decussate lines, near the vein of the frond: *involucres* double, originating from a vein, opening towards the margin both sides.

plantagineum. Fronds ovate-lanceolate, ferrate-crenate: stalk square.
Linn. Asplen.

gradifolium. Fronds pinnate; divisions broad-lanceolate, slightly serrate, angular at the base. Swart.

1879. LONCHITIS. *Fructification* in small crescent-shaped lines in pairs, at each sinus of the frond: *involucres* from the inflected margin of the frond, opening towards the rib.

hirsuta. Fronds pinnatifid, obtuse, very entire: shoots branched, hairy.

Plum fil. t. 20.

repens. Fronds pinnate: divisions alternate, sinuate: shoots branched, prickly. *Plum. fil. t. 12.*

aurita. Fronds pinnate: lowest divisions 2-parted: shoots undivided, prickly. *Plum. fil. t. 17.*

tenuifolia. Fronds more than decompose: subdivisions linear-oblong, serrate; lowest pinnatifid. *Forst.*

1880. PTERIS. *Fructification* in a continued marginal line: *involucre* from the inflected membranaceous margin of the frond, continued, opening towards the rib.

A. *Pteris proper.*

a. *Frond simple.*

philoselloides. Barren-fronds obovate; fertile-ones lanceolate, longer, from a creeping shoot. *Banks. ic. Kamf. t. 31.*

angustifolia. Fronds lance-linear, erect: fructification on the whole margin. *Swartz. ind. occ.*

lanceolata. Fronds lanceolate, somewhat angular, bearing the fructification at the top. *Plum. fil. tab. 132.*

tricuspidata. Fronds linear, 3-cleft at top. *Plum. fil. t. 140.*

furcata. Fronds forked, bristly underneath, bearing the fructification at top. *Plum. fil. tab. 141.*

b. *Frond pinnate.*

grandifolia. Divisions opposite, ovate-linear, pointed, entire.

Plum. fil. tab. 105.

longifolia. Divisions linear, repand, hearted at the base. *Plum. 69.*

vittata. Divisions linear, straight, rounded at the base.

Osbeck. Chin. tab. 4.

stipularis. Divisions linear, sessile: stipules lanceolata. *Plum. fil. t. 70.*

cretica. Divisions opposite, lanceolate, serrulate, narrowed at the base; lowest 3-parted. *Tourn. inst. t. 321.*

ferraria. Divisions opposite, linear-lanceolate, tooth-serrate at top; lowest bipartite. *Thunb. prodr.*

crenata. Divisions linear, ferrulate at top; lower-ones somewhat pinnate, with obtuse segments. *Burm. Zeyl. t. 87.*

c. *Fronde doubly pinnatifid and doubly pinnate.*

thalictroides. Barren-divisions pinnatifid, with obtuse segments; fertile-ones pinnate, with 2-parted linear segments. *Fior. Zeyl. t. 4.* Acrost.

denticulata. Fronds pinnate; lower divisions semipinnate, lanceolate; barren-ones with spinulous teeth; fertile-ones entire. *Swartz. ind. occ.*

attenuata. Divisions ensiform, sinuate-pinnatifid: segments lanceolate, somewhat falcate; terminal-one long. *Swartz. spec.*

arguta. Fronds nearly doubly pinnate; lowest divisions twice 2-parted: segments lanceolate, ferrate. *Pluk. Alm. t. 290: f. 2.*

comans. Fronds doubly pinnatifid: segments long-lanceolate, tapering to the top, ferrate. *Swartz. spec.*

incisa. Fronds doubly pinnate: subdivisions united, nearly entire; lower-ones cut-toothed. *Thunb. prodr.*

biaurita. Fronds doubly pinnatifid; lower-divisions 2-parted. *Plum. fil. t. 15.*

semipinnata. Fronds nearly doubly pinnate: divisions and subdivisions of the base pinnatifid and semipinnatifid. *Osbeck. Chin. t. 3. f. 1.*

flabellata. Fronds doubly pinnatifid: lowest divisions semibipinnatifid; segments decurrent, lance-linear, ferrate. *Thunb. prodr.*

mutata. Fronds decomposed: lowest divisions pinnatifid; terminal-ones and those of the base very long. *Plum. t. 51.*

d. *Fronde more than decomposed.*

tripartita. Frond tripartite: leaflets doubly pinnatifid; lateral-ones 2-parted. *Swartz. spec.*

podophylla. Frond pedate: leaflets doubly pinnatifid; lateral-ones 3-parted. *Brown. Jam. t. 1.*

Adscensionis. Leaflets nearly doubly pinnate: divisions decurrent, ovate-lanceolate, rather obtuse, tooth-ferrate; lowest pinnatifid. *Swartz. spec.*

villosa. Leaflets doubly pinnatifid; divisions broad lanceolate; subdivisions decurrent, ovate-lanceolate, sinuate cut, with ovate segments. *Swartz. spec.*

aculeata. Leaflets doubly pinnatifid: divisions broad lanceolate: segments ferrate, the terminal-one elongated: trunk arboreous, and stem prickly. *Plum. t. 5. 9.*

**aquilina*. Leaflets pinnate: divisions lanceolate, repand; lowest ones pinnatifid; upper-ones less. *Blackw. t. 325.*

caudata. Leaflets doubly pinnate: subdivisions somewhat linear; lowest pinnatifid at the base, terminal-ones longer. *Plum. t. 29.*

esculenta. Leaflets doubly pinnate: subdivisions linear, decurrently united, uppermost shorter. *Forst.*

capensis. Leaflets doubly pinnate, hairy underneath: subdivisions linear, united; terminal-ones longer. *Thunb.*

heterophylla. Leaflets doubly pinnate: subdivisions wedge-oblong; of the barren ones ferrate; of the fertile-ones angular and toothed at top. *Plum fil. t. 37.*

**crispa*. Leaflets doubly pinnate: barren subdivisions roundish, cut; fertile-ones oblong-linear, entire. *Eng. Bot. t. 1160.*

B. *Adiantum*-like, with the fructification of *Pteris*, and a brown stalk.

rotundifolia. Fronds pinnate, bristly; divisions roundish, obscurely crenate. *Forst.*

trichomanoides. Fronds pinnate: divisions somewhat ovate, repand, hairy underneath. *Plum fil. t. 75*

varia. Fronds pinnate: lower-divisions roundish; upper-ones ovate, slightly auricled at the base each side. *Swart.*

auriculata. Fronds pinnate: divisions ovate, auricled upwards, entire and somewhat pinnatifid; fertile-ones acute, crenulate.

Thunb. prodr.

pedata. Fronds 5-angled, trifoliate, quite glabrous: leaflets pinnatifid; lateral-ones 2-parted. *Plum t. 152.*

argentea. Fronds 5-angled, trifoliate, white-mealy underneath: leaflets pinnatifid; lateral-ones 2 parted. *Comm. Petrop. 12. tab. 12. f. 2.*

involuta. Fronds doubly pinnate: subdivisions somewhat heart-ovate, united: involucre plaited: stalk chaffy, hairy. *Swartz. spec.*

farinosa. Frond tripinnatifid below, bipinnatifid above: segments ovate, obtuse, white mealy underneath. *Vahl. symb. 3. t. 75.*

atropurpurea. Fronds decomposed: divisions lanceolate, the terminal-ones longer. *Pluk. phyt. t. 431. f. 3.*

hastata. Fronds more than decomposed: leaflets remote doubly pinnatifid: divisions ovate-lanceolate, somewhat halbert-shaped; lower-ones 3-lobed: involucre plaited. *Linn.*

Calomelanos. Fronds more than decomposed: leaflets doubly pinnate: subdivisions hearted, entire, obtusely triangular; larger-ones 3-lobed: stalk glabrous. *Swartz.*

1881. VITTARIA. Fructification in continued longitudinal lines, on the disk or near the margin: involucre double, continued; one from the surface, opening outwards; the other from the inflected margin, opening inwards.

lineata. Fronds linear, very long, pendulous: lines of fructification solitary. *Plum. fil. t. 143.*

lanceolata. Fronds lance-linear, erect: lines of fructification numerous. *Aët. nat. Berol.* 2. t. 7.

ensiformis. Fronds linear-ensiform, erect: lines of fructification solitary, marginal. *Aët. Berol.* 2. t. 7. f. 1.

1882. ONOCLEA. *Fructification* crowded, occupying the whole back of the divisions of a separate frond: *involucre* from the membranaceous revolute margin of the frond, generally lacerated, opening towards the rib.

sensibilis. Barren-fronds pinnate, with cut segments, upper-ones united; fertile-ones doubly pinnate, with recurved-globular subdivisions. *Pluk. phyt.* 1. 404 f. 2.

fruthiopteris. Fronds doubly pinnatifid: fertile-ones with linear obtuse divisions and roundish subdivisions. *Flor. Dan.* t. 169.

capensis. Fronds pinnate: barren-ones with heart-lanceolate serrulate divisions; fertile ones linear, naked. *Linn*

lineata. Fronds pinnate: barren-ones with obliquely hearted, nearly entire divisions; fertile-ones linear, rib chaffy. *Swart. ind. occ.*

attenuata. Barren-fronds pinnatifid, with the terminal-lobe very long; fertile-ones pinnate, linear. *Swartz spec.*

1883. BLECHNUM. *Fructification* in a continued longitudinal line, each side the rib of the frond and parallel with it: *involucre* from the surface, continued, opening towards the rib.

occidentale. Fronds pinnate: divisions opposite, lanceolate, emarginate at the base; upper-ones united. *Plum. fil.* t. 62.

australe. Fronds pinnate: divisions heart-lanceolate, mucronate, rough on the margin. *Pluk.* t. 89. f. 7.

orientale. Fronds pinnate: divisions ensiform, tapering, alternate. *Linn.*

punctulatum. Fronds pinnate: divisions heart-linear-lanceolate, somewhat falcate, dotted on the margin; lower-ones gradually shorter. *Swartz. sp.*

rigidum. Fronds pinnate: divisions heart-lanceolate, obtuse; upper-ones confluent. *Swart spec.*

**boreale*. Barren fronds pinnatifid, with lanceolate rather obtuse parallel segments; fertile-ones pinnate, with linear pointed segments. *Eng. Bot.* t. 1159.

onocleoides. Barren fronds pinnatifid, with lanceolate falcate pointed segments: fertile-ones pinnate, linear, rather remote. *Swartz. ind. occ.*

procerum. Fronds pinnate, distinct: barren-ones pinnate, remote ovate-oblong, pointed, ferrate; fertile-ones linear.

Forst. *Osmundia*.

1884. WOODWARDIA. *Fructification* in oblong distinct dots, disposed in a regular row along the rib: *involucre* superficial, vaulted, opening towards the rib.

angustifolia. Frond pinnate, with linear acute entire segments; barren-ones slightly serrate. *Smith's Tracts*.

japonica. Frond pinnate: divisions pinnatifid, the nerve naked, with obtuse serrate lobes: stalk scaly. *Thun. Jap. t. 35*.

orientalis. Frond pinnate: divisions pinnatifid; the nerve naked; lobes obtuse, serrate: stalk glabrous. *Houtt. 2. t. 97. f. 1*.

radicans. Frond pinnate: divisions pinnatifid, the nerve naked; lobes ovate lanceolate, entire; stalk glabrous. *Till. pis. t. 24*.

virginica. Frond pinnate: divisions pinnatifid, the nerve bearing fruit each side; lobes obtuse serrulate: stalk glabrous.

Pluk. phyt. t. 179. f. 2.

1885. LINDSÆA. *Fructification* in a continued line, a little removed from the margin: *involucre* from the surface, continued, opening towards the margin.

sagittata. Frond simple, arrow-shaped or hearted, pointed.

Aubl. Guian. t. 336. Adiant.

reniformis. Frond simple, kidney-form, obtuse.

Linn. Trans. 3. t. 7. f. 1.

ensifolia. Frond pinnate, with sword-shaped alternate segments.

Swartz spec.

linearis. Frond pinnate, linear: divisions very short, triangular, crenulate, and fertile on the fore-part. *Swartz spec.*

falcata. Frond pinnate: divisions falcate downwards, very entire,

Dryand. Linn. Trans. 3. t. 7. f. 2.

heterophylla. Frond pinnate: divisions entire or serrulate; lower-ones rhombic-lanceolate, pointed; upper-ones rhombic, obtuse; outmost confluent. *Linn. Trans. 3. t. 8. f. 1*.

flabellulata. Frond pinnate: divisions fan-shaped, denticulate; of the older lower-ones pinnatifid. *Linn. Trans. 3. t. 8. f. 2*.

trapeziformis. Frond doubly pinnate: divisions spreading, lanceolate; subdivisions trapeziform, lowest fan-shaped. *Dryand.*

guianensis. Frond doubly pinnate: divisions spreading, subulate; lower subdivisions lunate, middle-ones trapeziform, uppermost fan-shaped. *Aubl. Guian. t. 365*.

stricta. Frond doubly pinnate: divisions erect, stiff; subdivisions trapeziform. *Dryand.*

trichomanoides. Frond doubly pinnate: subdivisions wedge-shaped, nearly linear, retuse. *Linn. Trans. 3. t. 11*.

tenera. Frond triangular tripinnatifid, with obovate rhombic cut segments. *Linn. Trans. 3. t. 10*.

microphylla. Frond tripinnatifid, lanceolate: segments wedge-shaped, dilated at top and crenulate. Swart.

1886. ADIANTUM. *Fructification* in distinct marginal dots or small lines; *involucres* membranaceous, distinct, from the turned in margin of the frond, opening towards the rib.

Maiden-hair.

A. *Genuine: capsules innate in the involucres.*

a. *Frond simple.*

reniforme. Fronds orbicular-kidney-form, undivided, crenate.

Pluk Alm. t. 287. f. 5.

philippense. Fronds from a shoot, alternate, kidney-form, lobed.

Pet. Gaz. tab. 4 f. 4.

b. *Frond compound.*

triphylum. Frond 3-leaved: leaflets sessile, lanceolate, pinnatifid, crenate. *Smith ic. ined. tab. 74.*

radiatum. Frond digitate: leaflets pinnate; divisions oblong, auricled upwards, slightly crenate. *Plum t. 100.*

pedatum. Frond pedate; leaflets pinnate; divisions rhombic-oblong, somewhat lunate, cut-lobed. *Pluk t. 124. f. 2.*

flabellulatum. Frond somewhat pedate: leaflets pinnate; divisions rhombic-rounded, crenulate: stalk pubescent. *Ret. obs. 2. t. 5.*

lunulatum. Fronds pinnate: divisions alternate, lunulate, nearly entire, radiate-veined, fruiting on the upper margin: lines confluent. *Willd. Phyt. t. 9 f. 1.*

aultratum. Fronds pinnate: divisions deltoid-lanceolate, obtuse; terminal-one elongated. *Willd. Phyt. t. 9. f. 2.*

pumilum. Fronds pinnate: divisions rounded, serrulate; terminal-one larger, trapeziform: dots of fructification on the upper margin, nearly solitary. *Pluk. t. 251. f. 4.*

caudatum. Fronds pinnate, tailed and rooting at top: divisions falcate downwards, cut above, with emarginate segments.

Burm. Zeyl. t. 5. f. 1.

macrophyllum. Fronds pinnate: divisions opposite, trapeziform, acute; upper-one larger; lowest somewhat halbert-shaped, reflected: line of fructification continued before and behind.

Brown. Jam. t. 83 f. 1.

deltoidesum. Fronds pinnate, somewhat doubly pinnate below: subdivisions deltoid, obtuse; uppermost triangular: lines of fructification on the upper and under margin. *Swart. ind. occ.*

c. *Frond decomposed.*

ferrulatum. Fronds pinnate or pinnatifid: subdivisions halved, deltoid, oblong, somewhat falcate, serrulate, fruiting on the upper margin. *Sloan. Jam. 1. t. 35. f. 2.*

- denticulatum*. Fronds pinnate or bipinnate: subdivisions trapezoid, oblong, pointed, crenate denticulate, fruiting on the upper margin. *Plum. fil. t. 52.*
- falcatum*. Fronds pinnate or bipinnate: subdivisions, trapezoid, pointed, falcate, serrate at top: line of fructification continued forward and upward. *Sloan. Jam. 1. t. 55. f. 1.*
- lanceum*. Fronds doubly pinnate: divisions and subdivisions pointed, opposite, oblong; terminal ones triangular-halbert-shaped. *Seba: Musc. 2. t. 64. f. 7. 8.*
- cristatum*. Fronds doubly pinnate: lowest divisions 2-parted: subdivisions oblong, truncate behind, cut-l-lobed above. *Plum. fil. tab. 97?*
- striatum*. Fronds doubly pinnate lowest divisions 2-parted; subdivisions rhombic, somewhat falcate, striate, rigid: stalk round, rough. *Jacq. ic. rar.*
- bispidulum*. Fronds doubly pinnate: lowest divisions 2-parted; subdivisions rhombic, somewhat falcate, striate, a little bristly: stalk and rachis angular-bristly. *Swartz.*
- villosum*. Fronds doubly pinnate: divisions trapezio-oblong, obtuse: lines of fructification forwards and upwards: stalk and rachis villous. *Sloan. Jam. 1. t. 55. f. 1?*
- pulverulentum*. Fronds doubly pinnate: subdivisions rhombic-ovate, ferrate at top; line of fructification on the upper margin, solitary: stalk hairy. *Plum. t. 33.*
- **Capillus Veneris*. Frond alternately decomposed: subdivisions wedge-form, petioled, rounded and lobed at top; the lobes bearing the fruit. *Bolton. t. 29.*

d. Frond more than decomposed.

- tenerum*. Subdivisions rhombic, obtuse, cut-lobed, above; lobes denticulate, fructiferous. *Pluk. t. 254. f. 1.*
- fragile*. Subdivisions wedge-obovate, crenate upwards; the crenatures fructiferous. *Swart. ind. occ.*
- assimile*. Subdivisions rhombic-rounded, radiate; veined, crenulate on the fore part; the crenatures fructiferous. *Swartz. spec.*
- trapeziforme*. Subdivisions rhombic, pointed, cut-crenate on the fore part and before; the crenatures fructiferous. *Plum. t. 95.*
- æthiopicum*. Subdivisions wedge-shaped, rounded upwards, cut-lobed, crenulate: lobes emarginate and fructiferous: involucre kidney-form. *Pluk Alm. t. 253. f. 2.*
- pallens*. Subdivisions ovate-rhombic, obtuse, cut upwards; the lowest auricled at the base. *Swart spec.*

B. Spurious: fructification in distinct marginal dots, covered with scale-like involucre, not innate.

viride. Fronds doubly pinnate: subdivisions ovate, entire; terminal-ones larger, ovate-lanceolate or somewhat halbert-shaped; stalk smooth. *Vahl. symb.* 3.

microphyllum. Fronds doubly pinnate, lanceolate, both sides and stalk pubescent: subdivisions oblong, obtuse, crenulate; lowest somewhat pinnate. *Plum. fil. t.* 58.

fragrans. Frond doubly pinnate: subdivisions ovate, obtuse, slightly lobed, naked underneath: stalk chaffy. *Pluk. Alm. t.* 281. *f.* 4.

Caffrorum. Fronds pinnate and tripinnatifid, hairy: subdivisions ovate, crenulate, underneath and rachis chaffy-hairy. *Linn.*

parvilobum. Fronds doubly pinnate, glabrous: subdivisions remote, 3-lobed, convex, crenulate, middle-lobe oblong, lateral-ones roundish: rachis chaffy-hairy. *Swartz.*

capense. Fronds more than decomposed: subdivisions ovate, undivided, united, crenulate: fructification contiguous. *Thunb. prodr.*

pteroides. Fronds more than decomposed: leaflets tripinnate: subdivisions heart-ovate, crenulate: dots contiguous: involucre imbricate: stalk quite glabrous. *Houtt. 2. t.* 96. *f.* 3.

tenuifolium. Fronds more than decomposed: leaflets lax, nearly bipinnate: subdivisions oblong, crenate. *Swartz. sp.*

multifidum. Fronds more than decomposed: leaflets tripinnatifid, glabrous: lobes obovate, convex, cut-crenate. *Swartz. sp.*

1887. **DAVALLIA**. *Fructification* in roundish distinct dots near the margin: *involucre* membranaceous, from the surface, half-hooded, distinct, somewhat truncate, opening towards the margin.

heterophylla. Barren-fronds quite simple, ovate-lanceolate, acute, entire; fertile-ones linear lanceolate, sinuate. *Smith.*

pectinata. Fronds lanceolate, pinnatifid: segments united linear, obtuse, slightly cut. *Swart. sp.*

contigua. Fronds linear-lanceolate, pinnatifid: segments united linear, obtuse, slightly cut. *Swartz spec.*

falcata. Fronds pinnate: segments lanceolate, somewhat falcate, truncate at the base and auricled upwards: dots of fructification downy. *Swart. spec.*

pedata. Fronds 5-angled, 3-cleft, pinnatifid. *Linn. Adiant.*

hirsuta. Fronds nearly doubly pinnate, pubescent: subdivisions united lance-falcate, crenate on the fore-part. *Thunb.*

elata. Decomposed: leaflets pointed; divisions ovate-oblong, cut with obtuse crenatures. *Swart. spec.*

solida. Decomposed: leaflets pointed: divisions ovate-oblong, cut crenate, crenatures obtuse. *Forst.*

elegans. Decomposed: leaflets tapering to the top: divisions lanceolate, cut, ferrate; the ferratures emarginate. *Houtt. 2. t.* 100. *f.* 2.

cuneiformis. Alternately decomposed, with ovate-wedge-form cut segments: dots of fructification in pairs. *Swart.*

elavata. Alternately decompound, with linear-wedge-form obtuse lobes: dots of fructification solitary. *Plum. t. 101.*

ebinensis. Alternately decompound: leaflets tripinnatifid, with wedge-form obtuse lobes: dots mostly in pairs. *Pluk. t. 4. f. 1.*

tenuifolia. Alternately decompound: leaflets nearly quadripinnatifid, with linear-wedge-form retuse lobes; dots in pairs. *Swart spec.*

gibberosa. Fronds tripinnate: divisions oblong, pinnatifid-cut, with linear segments: fructiferous gibbosities on the lower margin.

Swart. spec.

epiphylla. Fronds tripinnatifid: leaflets tapering to the top: divisions lanceolate, with cut serrate segments. *Forst.*

canariensis. Frond 3-parted, alternately decompound: segments lanceolate, fertile-ones obovate. *Linn. Trichom.*

aculeata. More than decompound: subdivisions wedge-form obtuse, somewhat palmate lobed; lobes wedge-shaped; dots in pairs: rachis flexuous, prickly. *Plum. t. 94.*

fumarioides. More than decompound: subdivisions somewhat palmate 2-parted, with linear singly dotted segments: rachis flexuous, prickly. *Swartz ind. occ.*

scandens. More than decompound: subdivisions wedge-rhombic, cut-crenate; the crenatures 2-dotted: rachis flexuous, unarmed.

Lour. Coch. Adiant.

1888. DICKSONIA. *Fructification* in roundish, distinct marginal or terminal dots: *involucre* double; one from the surface, opening outwards: the other from the inflated margin of the frond, often embracing the former, opening inwards.

integra. Arboresecent: fronds subbipinnate, pubescent: divisions broad lanceolate; subdivisions oblong, entire, united at the base.

L'Herit. fert. Angl.

squarrosa. Arboreous: fronds subbipinnate: divisions oblong, pointed; subdivisions united at the base, lanceolate, mucronate-serrate: rachis bristly. *Forst. Trichom.*

eulcita. More than decompound, glabrous: leaflets and divisions rhombic; subdivisions ovate, cut and pinnatifid, with toothed segments: stalk glabrous. *L'Herit. Angl.*

flaccida. More than decompound, glabrous: subdivisions rhombic, oblong, rather acute, cut-pinnatifid, with wedge-shaped obtuse 2-toothed gibbous segments; stalk pubescent. *Swart*

difsecta. More than decompound: subdivisions oblong, obtuse, sinuate pinnatifid, with obtuse gibbous slightly crenulate segments.

Forst. Trichom.

scutaria. More than decompound: subdivisions oblong, cut-pinnatifid, with ovate, acute ferrulate segments; the lowest larger.

Sloan. Jam. . t. 57. f. 1. 2.

apiifolia. Decompond: leafets trapeziform: subdivisions wedge-oblong, ferrate; lower ones auricled upwards at the base. *Swart ind occ.*

polypodioides. Decompond: leafets doubly pinnate: subdivisions rhombic-ovate, decurrent, obtuse, cut-toothed, pubescent: stalk rough. *Swart.*

zeylanica. More than decompond: subdivisions oblong, obtuse, sinuate-pinnatifid, with obovate gibbous toothed segments: stalk glabrous. *Swartz. spec.*

multifida. More than decompond: subdivisions ovate, pointed, cut-pinnatifid, with ovate serrulate segments: stalk pubescent. *Willd. phyt. t. 8. f. 1.*

frigosa. Doubly pinnate: divisions ensiform: subdivisions rhombic-oblong, rather acute, cut, with obovate toothed segments: stalk or rachis pubescent. *Thunb. Jap. Tsch.*

japonica. Nearly doubly pinnate: divisions ensiform: subdivisions rhombic-ovate, obtuse, ferrate, pubescent: stalk pubescent. *Houtt. N. H. 2. t. 99. f. 3.*

marginalis. Pinnate: divisions ensiform, auricled upwards, cut, the the upper-ones united. *Thunb. Jap. Polypod.*

1889. CYATHIFA. *Fructification* in roundish scattered dots, seated on a columnar receptacle, within the calyx-like involucre which opens at top

arborea. Trunk arboreous, scaly: leafets doubly pinnate; subdivisions lanceolate; rather acute, ferrate. *Plum. t. 1.*

excelsa. Trunk lanceolate, scaly: leafets nearly bipinnate: subdivisions oblong, rather acute, ferrate at top: dots at the base, nearly solitary. *Swart spec.*

extensa. Trunk arboreous: leafets doubly pinnate: subdivisions united, oblong, obtuse, ferrate at top. *Forst. Polyp.*

aspera. Arboreous, prickly: leafets subbipinnate: subdivisions united, oblong, obtuse, ferrate at top. *Plum. fil. t. 3.*

dealbata. Arboreous: leafets bipinnate; subdivisions oblong, somewhat falcate, ferrate, white underneath: rachis rough. *Forst. Polyp.*

multiflora. Leafets subbipinnate, with obtuse ferrate subdivisions: rachis winged. *Smith's tracts.*

medullaris. Arboreous, bristly: leafets doubly pinnate: divisions alternate; subdivisions sessile, oblong, somewhat falcate: rachis rough. *Forst. Polyp.*

affinis. Doubly pinnate: divisions pointed; subdivisions linear-oblong, crenate: stalk and rachis hairy. *Forst. Polyp.*

horrida. Decompond: leafets doubly pinnatifid: divisions broad lanceolate; segments somewhat falcate, acute, ferrate at top, fruiting near the margin: stalk prickly. *Plum. t. 8.*

1890. TRICHOMANES. *Fruetification* crowded, in somewhat exserted marginal dots, seated on a small column, within the cup-shaped 1-leaved *involute* which opens outwardly.

A. *Fronde simple.*

- reniformis*. Fronds kidney-form, on stalks. *Hedw. ic. fil.*
membranaceus. Fronds incumbent, oblong, entire and jagged, with a peltate-scaly margin. *Plum. fil. t. 101. a.*
muscoides. Fronds incumbent, wedge-oblong, repand: cups of the fruit exserted. *Swart. ind. occ.*
pusillus. Fronds nearly erect, linear, entire and a little divided: cups of the fruit exserted. *Swart. ind. occ.*
reptans. Fronds erect, wedge-ovate, cut and pinnatifid: cups of the fruit exserted. *Hedw. ic. fil.*
crispus. Fronds lanceolate, somewhat pinnate, with parallel obtuse slightly ferrate lobes. *Plum. fil. t. 80.*

B. *Fronde compound.*

- pinnatus*. Pinnate, with oblong lanceolate entire lobes; upper-ones decurrently united. *Hedw. ic. fil.*
guineensis. Pinnate, with oblong decurrent cut pinnatifid lobes: segments obtuse, slightly ferrate: stalk and rib margined. *Afzel.*
pyxidiferus. Tripinnatifid, pointed, with linear obtuse segments: cups axillary and terminal, slightly pedicelled: rib and stalk margined. *Plum. fil. t. 50. ?.*
humilis. Fronds forked, doubly pinnatifid: divisions decurrent; segments linear, obtuse: cups axillary: stalk very short. *Hedw. ic. fil.*
crinitus. Doubly pinnatifid, obtuse, hairy: divisions ovate-decurrent, with obtuse and 2-lobed segments: stalk round, hairy. *Hedw. ic. fil.*
alatus. Doubly pinnatifid, tapering, hairy: divisions pointed; segments acute, ferrate at top: stalk and rib winged. *Plum. t. 50. D.*
lucens. Doubly pinnatifid, very long: divisions parallel, lanceolate, with rounded curled segments: stalk very hairy. *Hedw. ic. fil.*
radicans. Tripinnatifid, with obtuse bifid segments: cups slightly pedicelled: stalk and rib margined: shoot climbing. *Hedw. fil.*
scandens. Tripinnatifid, with obtuse entire segments: cups inserted: stem or rib round: shoots climbing, rooting. *Plum. t. 93.*
tamarisciformis. Doubly pinnate, with pinnatifid-lobed subdivisions: lobes oblong: cups inserted: stem or rib round, a little hairy. *Jacq. collect. 3. tab. 21. f. 3.*
rigidus. Nearly quadripinnatifid, deltoid, erect: segments linear, acute, cut: cups axillary, pedicelled; stem round, rigid. *Hedw. ic. fil.*
trichoideus. More than decomposed, oblong, capillary, erect: subdivisions 2-parted: cups supraaxillary. *Swart.*

1891. HYMENOPHYLLUM. *Fruetification* in marginal somewhat exserted crowded dots, seated on a small column, within the 2-valved flattish straight *involucre* which opens outwardly.

asplenoides. Fronds pendulous lanceolate, pinnatifid, with the segments lobed. *Hedw. ic. fil. Trichom.*

virsutum. Pinnate, lanceolate, lax, hairy: rib margined: divisions linear, simple or digitate. *Plum. fil. t. 50 B.*

decurrents. Doubly pinnatifid: divisions oblong, decurrent, segments obtuse, entire, slightly ciliate: stalk margined.

Jacq. collect. 2. tab. 2. f. 1. 2.

sericeum. Double pinnatifid, lanceolate, somewhat downy, pendulous: segments linear, obtuse, entire; those of the base bifid: involucre hairy. *Plum. fil. t. 73*

bivalve. Bipinnate, ovate, acute: divisions decurrent, forked; segments linear, ferrate. *Forst. Trichom.*

succoides. Bipinnate, ovate: divisions decurrent; subdivisions simple or 2 parted, ferrate: fructification supra-axillary, mostly in pairs. *Hedw. ic. Trichom*

tunbridgense. Alternately pinnate and pinnatifid, decurrent, ferrate: fructification supra-axillary, solitary. *Eng. Bot t 162.*

lineare. Bipinnate, pendulous: subdivisions linear, entire and 2-parted, slightly ciliate. *Swartz. ind. occ.*

ciliatum. Bipinnate, deltoid: divisions decurrent; subdivisions linear, obtuse, about 2 parted, ciliate: stalk margined. *Hedw. ic. fil.*

dilatatum. Bipinnate, ovate-lanceolate: divisions wedge-form, decurrent, forked; with obtuse entire segments: involucre inflated. *Forst. Trichom.*

demissum. Bipinnate, ovate, acute, stiff: divisions forked; segments linear, obtuse, entire, cloven at top: involucre globular. *Hedw. ic fil.*

denticulatum. Bipinnate, ovate: divisions decurrent, forked; segments linear, rather obtuse, sinuate-toothed. *Swart.*

sanguinolentum. Somewhat tripinnatifid, rhombic; divisions forked, decurrent, segments obtuse, linear-oblong, entire or 2-parted. *Hedw. ic fil.*

undulatum. Tripinnatifid or bipinnate, lax: divisions decurrent; segments linear, retuse, crenate-undulate. *Swart.*

emarginatum. Somewhat tripinnate, oblong: divisions decurrent, forked; subdivisions 2-parted, with linear emarginate segments; terminal-ones long. *Swart.*

axillare. Somewhat tripinnate: subdivisions linear, obtuse, slightly emarginate: fructification supra-axillary, pedicelled. *Swar. ind. occ.*

- birtellum*. Tripinnate, circinate when dry ; subdivisions linear, rather acute, hairy : rib margined. *Swart. ind. occ.*
- clavatum*. Tripinnate, oblong, acute ; subdivisions linear, emarginate : rib rather margined. *Swart. ind. occ.*
- Polyanthos*. Tripinnate, deltoid : subdivisions linear, obtuse, entire : stalk or rib margined. *Swart. ind. occ.*
- multifidum*. Decompound : divisions decurrent, forked ; segments linear, sharply serrate : fructification supra-axillary, solitary.
- Forst.* Trichom.

1892. SCHIZÆA. *Fructification* on the back of an appendage to the frond: *involucres* continued, from the inflected margins of the appendage.

- pectinata*. Frond simple, naked : appendages leaning one way, connivent. *Am. Act. 1. t. 12 f. 4. 5.* Acrost.
- dichotoma*. Frond forked, with linear segments : appendages of the frond connivent. *Linn* Acrost.
- elegans*. Frond forked ; segments dilated, unequal, cloven, nerved : appendages revolute. *Vahl symb. 2. t. 30.*
- spicata*. Frond simple, lanceolate, tapering : appendages solitary, linear, erect. *Smith ic. ined tab. 49.*

B. *Exannulate.*

1893. OSMUNDIA. *Fructification* crowded, nearly globular, pedicelled, disposed in a raceme or on the back of the frond, 1-celled, 2-valved.

A. *Stems bearing racemes at the base of the frond.*

- phyllitidis*. Frond pinnate : stalk smooth *Plum. fil t. 156.*
- hirta*. Frond pinnate : stalk hairy. *Plum. fil t. 157.*
- hirsuta*. Frond doubly pinnate, hairy. *Plum. fil t. 162.*
- adiantifolia*. Frond more than decompound. *Plum. fil. t. 158.*

B. *Racemes on distinct scapes.*

- bipinnata*. Racemes pinnate : frond bipinnatifid. *Plum. fil t. 59.*
- cervina*. Racemes pinnate : frond pinnate ; segments entire.
Pl. t. 152.
- aurita*. Racemes pinnate ; racemelets digitate : frond pinnatifid below, pinnate above ; segments at the base gibbous upwards.
Swart. ind. occ.
- verticillata*. Racemes whorled, simple : frond more than decompound. *Plum. fil. t. 160.*

siliculifolia Racemes pinnate : frond more than decompound. *Pl. t. 161.*

C. *All the fronds fertile.*

- claytoniana*. Frond pinnate : divisions pinnatifid, contracted by fruiting at top. *Linn.*

* *regalis*. Frond bipinnate: raceme terminal, more than decom-pound. *Eng. Bot t. 209 Bolton fil t. 217.*

totia. Nearly bipinnate, with lanceolate serrate segments; fertile-ones with capfuliferous veins beneath. *Pluk. t. 108. f. 3.*

D. *Fertile fronds distinct.*

cinnamomea. Fronds bipinnatifid; fertile-ones hairy: racemes com-pound. *Linn*

japonica. Fronds bipinnate; segments heart-lanceolate, serrate: fertile ones tripinnate. *Houtt. N. H. 2. t. 96. f. 1*

lancea. Fronds bipinnate; segments lanceolate, serrate: fertile-ones more than decom-pound, ternate. *Houtt. 2. t. 95. f. 1.*

thurifera. Fronds bipinnate: segments of the barren-ones cut-serrate, of the fertile-ones lobed, bearing the capsules on the margin. *Swartz.*

1894. **LYGODIUM.** *Fruetification* solitary, sessile, within the imbricate 2-rowed scales of the marginal spikes of the seg-ments of the frond, 1-celled, 2-valved: *seeds* numerous, roundish.

scandens. Stem round: fronds pinnate; divisions, heart-lanceolate, nearly entire. *Rumph. Amb. 6. t. 32. f. 2.*

flexuosum. Stem round: fronds somewhat palmate, with lanceolate nearly entire divisions. *Rumph. Amb. 6. t. 33.*

pedatum. Stem round: fronds forked: divisions in pairs, ensiform. *Swart. spec.*

japonicum. Stem angular: fronds more than decom-pound: subdivi-sions alternate, cut; fertile-ones linear. *Thunb. Ophiogloss.*

1895. **GLEICHENIA.** *Fruetification* 3 or 4 together, oval, sessile, half immersed in an hemispherical hollow of the segments of the frond, 1-celled, 2-valved: *seeds* numerous, roundish.

polypodioides. Ribs of the fronds quite glabrous: capsules in threes. *Linn. Onocl.*

circinata. Ribs of the frond pubescent: capsules 4 together. *Swartz.*

1896. **ANGIOPTERIS.** *Fruetification* oval, sessile, in a line near the margin of the frond, approximate in a double row, 1-celled.

execta. Angiopteris. *Hoffm. Comm. Gott. 12. tab. 5.*

1897. **DANÆA.** *Fruetification* oblong-linear, transversely im-mersed in the frond, parallel, many-celled; *cells* in a dou-ble row, opening upwards: *seeds* numerous, very minute.

nodosa. Rib nearly simple: divisions pointed, nearly entire, bearing the fructification close to the margin: stipules acute.

Plum. fil. tab. 108.

alata. Rib winged at top: divisions ferrulate, naked near the margin: stipules obtuse, notched. *Plum. fil. t. 109.*

1898. MARATTIA. *Fructification* oval. scattered over the surface of the frond, many-celled, opening longitudinally on the upper side; *cells* opening in a double row: *seeds* numerous ovate, minute.

alata. Bipinnate: subdivisions acute, ferrate: ribs scaly; partial-ones winged. *Smith ic. ined. tab. 46.*

laevis. Bipinnate: subdivisions obtusely ferrate at top: ribs smooth, partial-ones winged. *Smith ic. ined. tab. 47.*

fraxinea. Pinnate, with lanceolate ferrate segments: ribs smooth *Smith ic. ined. tab. 48.*

1899. PSILOTUM. *Capsules* globular, about 3-grained, scattered, axillary-lateral, sessile, 3-celled, opening by 3 valves at top: *seeds* very numerous.

triquetrum. Branches all 3-sided. *Plum. t. 170. A. A.*

complanatum. Branches all flat. *Swart, spec.*

1900. BOTRYCHIUM *Capsules* nearly globular, distinct, clustered in a raceme-like spike, 1-celled, opening from the top to the base.

* *Lunaria*. Frond solitary, pinnate; divisions crescent-shaped.

Eng. Bot. t. 318. Bolton. t. 4.

* *rutaceum*. Fronds mostly solitary, doubly pinnate; divisions ovate, cut. *Breyn. Cent. t. 94. 95.*

virginianum. More than decomposed, with pinnatifid cut lobes: spike doubly pinnate. *Plum. fil. t. 159.*

ternatum. Frond 2-parted, more than decomposed. subdivisions cut-ferrate: spike pinnate. *Thunb. Jap. t. 32.*

zeylanicum. Frond whorl-pinnate, with lanceolate segments.

Rumph. Amb. 6. tab. 68. f. 2.

1901. OPHIOGLOSSUM. *Capsules* nearly globular, connected into a somewhat jointed 2-rowed spike, 1-celled, opening transversely: *seeds* roundish, pulverulent.

Adders' tongue.

* *vulgatum*. Leaf ovate. *Eng. Bot. t. 108. Bolton. t. 3.*

- lusitanicum*. Leaf lanceolate. *Barr. ic. t. 252. f. 2.*
reticulatum. Leaf heart-shaped. *Plum. fil. t. 164.*
nudicaule. Leaves ovate, without scape. *Linn. suppl.*
pendulum. Leaf linear, long, undivided. *Rumph. Amb. 6. t. 37. f. 3.*
palmatum. Leaf palmate. *Plum. fil. t. 111. f. 2.*

1902. LYCOPODIUM. Capsules kidney-form, compressed, axillary, solitary, sessile, 2-valved, naked, opening elastically: seeds numerous, very minute. *Club moss.*

A. Fructification in the axils of the leaves sessile.

linifolium. Leaves alternate, remote, lanceolate.

Plum. fil. t. 166. f. C C.

Myrsinites. Leaves scattered, about 2 rowed: ovate, acute, lax: stem branched, creeping. *Lamarck encyclop.*

dichotomum. Leaves alternate, scattered, linear: pointed, spreading: stem declined, assurgent, forked: branches spreading.

Jacq. vind. 3. t. 45.

Gnidioides. Leaves 3 together, imbricate, lanceolate, obtuse: stem forked: branches elongated. *Linn. suppl.*

filiforme. Leaves scattered, 4-rowed, linear-acute, appressed: stem filiform, forked, divaricate. *Swart.*

verticillatum. Leaves 8 rowed, approximate, acerose: branches forked, flaccid. *Plum. fil. t. 166. B.*

serratum. Leaves in about 8 rows, lanceolate, sinuate-serrate.

Thunb. Jap. t. 38.

javanicum. Leaves about 8-rowed, spreading, lanceolate: subulate, flat, serrulate, tapering to the base: stem forked, erect. *Swart.*

taxifolium. Leaves scattered, 8-rowed, linear-lanceolate, flat, quite entire, spreading: stem erect, forked. *Swart. ind. occ.*

* *Selago*. Leaves scattered, 8-rowed, somewhat imbricate, lance-subulate, a little concave; stem forked, erect, flat-topped.

Eng. Bot. t. 233.

rigidum. Leaves scattered, 6-8 rowed, linear-lanceolate, reflected; lower-ones squarrose: stem forked. *Plum. fil. t. 166. A.*

Saururus. Leaves scattered, linear-lanceolate, closely imbricate, erect: stem simple. *Lamarck.*

B. Fructification in the axils of the scales of the terminal spikes.

Phlegmaria. Leaves 4 in a whorl: spikes forked.

Dill. Musc. t. 61. f. 5.

myrtifolium. Leaves 4-rowed, linear oblong: spikes filiform, leafy.

Forst.

sanguinolentum. Leaves 4-rowed, imbricate: stems creeping, forked: spikes sessile, 4 sided. *Aman. acad. 2. p. 363. f. 26.*

- * *alpinum*. Leaves 4-rowed, imbricate, acute : stem creeping : shoots erect, forked : spikes sessile, cylindrical. *Eng. Bot. t. 234.*
- * *annotinum*. Leaves scattered, 5-rowed, spreading, slightly ferrate ; stem jointed at each years shoot : spikes sessile, cylindrical.
Dill. t. 63. f. 9.
- * *abscurum*. Leaves scattered, 6-rowed : shoots erect : branches alternate: radiately forked : spikes nearly sessile, cylindrical.
Dill. t. 67. f. 12.
- * *clavatum*. Leaves scattered, ending in a thread : spikes cylindrical, peduncled, 2 or 3 together. *Eng. Bot. t. 224.*
- rupestre*. Leaves scattered, ending in a thread : spikes 4-sided, sessile
Dill. t. 63. f. 11.
- curvatum*. Leaves scattered, curved : stem much branched : spikes drooping: scales 9-rowed, ferrate, spreading. *Pluk. t. 47. f. 9.*
- cernuum*. Leaves scattered, curved : stem much branched : spikes drooping: scales appressed, membranaceous, ferrate ciliate.
Dill. t. 63. f. 10.
- squarrosus*. Leaves scattered, linear-subulate, reflected, squarrose : stem forked : spikes leafy. *Forst.*
- * *inundatum*. Leaves scattered, quite entire, a little curved ; floral-ones dilated at the base : spikes leafy. *Eng. Bot. t. 239.*
- alopecuroides*. Leaves scattered, somewhat imbricate, linear, ciliate : spike leafy. *Dill. t. 62. f. 8.*
- * *selagnoides*. Leaves scattered, lanceolate, ciliate ; floral-ones larger and spread : spikes leafy. *Eng. Bot. t. 1148.*
- ophioglossoides*. Leaves scattered, lanceolate, glabrous, somewhat imbricate : spikes forked, longer than the stem. *Lam.*
- funiculosum*. Leaves scattered, lanceolate : branches elongated, string-like : spikes sessile, very long. *Lamarck.*
- scariosum*. Leaves 2-rowed, imbricate, erect, ovate : stem forked : spikes cylindrical : scales scarious, reflected. *Forst.*
- complanatum*. Leaves 2-rowed, united ; superficial-ones solitary : spikes in pairs, peduncled. *Flor. Dan. t. 78.*
- volubile*. Leaves 2-rowed, spreading, distinct ; superficial-ones solitary : spikes somewhat panicle-forked : stem sarmentous, twining. *Swart.*
- carolinianum*. Leaves 2-rowed, spreading; superficial-ones solitary : spikes on very long peduncles. *Dill. t. 61. f. 6.*
- flabellatum*. Leaves 2-rowed ; superficial-ones 2-ranked : stem erect, roundish. *Dill. t. 66. f. 5.*
- Myosurus*. Leaves 2-rowed ; superficial-ones 2-ranked : stem round, grooved underneath : spikes long, lax. *Afzel.*
- caniculatum*. Leaves 2-rowed: superficial-ones 2-ranked : stem erect, channelled. *Dill. t. 65. f. 6.*

circinale. Leaves 2-rowed, imbricate; superficial-ones in pairs: branches convolute. *Dill. t. 67. f. 11.*

stoloniferum. Leaves 2-rowed, spreading; superficial-ones oblong, acute, 2-ranked: shoots square, creeping, naked and stoloniferous below. *Dill. t. 67. f. 10.*

ornithopodicoides. Leaves 2-rowed, spreading; superficial-ones 2-ranked, ciliate: shoots creeping: spikes roundish, sessile. *Dill. t. 67. f. 10.*

plumosum. Leaves 2-rowed, imbricate, gibbous one side at the base; superficial ones semiovate, ciliate, with a small tip: shoots nearly erect, forked: spikes terminal, sessile, square. *Dill. t. 67. f. 8.*

ciliare. Leaves 2-rowed; superficial ones 2-ranked, ciliate: stem branched: spikes leafy, compressed, on one side. *Retz. fasc. 5.*

helveticum. Leaves 2-rowed, spreading; superficial-ones 2-ranked: shoots creeping, forked: spikes bifid, peduncled. *Dill. t. 65. f. 2.*

denticulatum. Leaves 2-rowed, spreading; superficial-ones imbricate: shoots creeping: spikes in pairs, sessile. *Dill. t. 65. f. 1. A.*

apodum. Leaves 2-rowed, alternately less: stem creeping: spikes mostly in pairs, sessile. *Dill. t. 65. f. 3.*

depressum. Leaves 2-rowed, alternate, denticulate, spreading, superficial-ones 2-rowed, nearly equal, ciliate: spikes oblong, sessile, leafy. *Swart.*

1903. EQUISETUM. Ament composed of peltate scales flowering on the inside: involuclers 2-valved: seeds numerous, naked, enfolded by 4 pollen-bearing filaments.

Horse tail.

* *sylvaticum*. Branches compound, curve-deflected, rough. *Bolton fil. t. 32. 33.*

* *arvense*. Barren stems every where branched; branches roughish: fertile-ones simple: sheaths distinct, broadly cut. *Curt. Lond. 4. t. 64.*

* *palustre*. Fertile stems angular, branched; branches simple, erect, roundish. *Bolt. fil. t. 35.*

* *fluviatile*. Barren stems with numerous roundish branches; fertile-ones simple: sheaths approximate, in many setaceous divisions. *Bolt. fil. t. 36. 37.*

* *limosum*. Stem partly naked, and with the branches smooth: ament terminal. *Eng. Bot. t. 929.*

* *hyemale*. Stem naked, very rough, mostly branched at the base: sheaths whitish in the middle, black at the top and base: ament terminal. *Eng. Bot. t. 915. Shave-grass.*

pratense. Stem branched, grooved, very rough; branches much spread, barren: sheaths with subulate scarious teeth. *Hannov. Mag. 1784. 9.*

giganteum. Stem arborescent, striate: branches simple, stiff, bearing the aments. *Plum. t. 125. f. 2.*

1904. PILULARIA. Common receptacle globular, villous, 4-celled, 4-valved, filled with numerous *antheræ*, and many globular germs beneath them.

**g'olulifera*. Pilularia. *Eng. Bot. t. 521.* Pillwort

1905. MARSILEA. Common receptacle, oval, coriaceous, many-celled, filled with numerous *antheræ* and germs.

patens. Leaves opposite, simple. *Act. Palat. 3. t. 21.*

quadrifolia. Leaves in fours, entire. *Moris. 3. t. 4. f. 5.*

1906. ISOETES. Male within the base of the inner-leaves: *anthera* solitary, on an inversely heart shaped receptacle.

Fem. within the base of the outer-leaves: germ on an inversely heart-shaped receptacle: capsule membranaceous: seeds numerous, angular, rough. *Quill wort.*

**lacustris*. Leaves subulate, semicylindrical: capsule roundish, 2-celled: seeds every where granulate. *Eng. Bot. t. 1084.*

coromandeliana. Leaves filiform, erect, glabrous. *Suppl. pl.*

ORDER II. MUSCI.

1907. PHASCUM. Capsule ovate, every where closed, or with the mere rudiment of a lid, not opening.

**subulatum*. Caulescent: capsule sessile: leaves lance-linear, spread, capillary at top. *Curt. Lond. fasc. 4. t. 67.*

**axillare*. Caulescent: capsule nearly sessile: leaves linear-lanceolate, spread: lateral pedicels recurved. *Eng. Bot. t. 1036.*

**crispum*. Caulescent: capsule nearly sessile: leaves lanceolate, pointed; curled when dry. *Hedw. 1. t. 9.*

**patens*. Caulescent: capsule sessile: leaves ovate-lanceolate, ferrate at top, spreading. *Eng. Bot. t. 1279.*

**strictum*. Nearly stemless: capsule nearly sessile: leaves subulate, erect, stiff, obscurely toothed. *Dicks. t. 10. f. 1.*

**piliferum*. Caulescent: capsule peduncled: leaves oblong, erect, ending in a hair. *Schreb. phasc. t. 1. 6.—10*

**multicapsulare*. Caulescent: capsules sessile, numerous: stem-leaves alternate; floral-ones linear-lanceolate, straight, entire.

Eng. Bot. t. 618.

**curvicolnm*. Stemless: capsules on a short curved peduncle: leaves lanceolate, with long points, spreading. *Eng. Bot. t. 905*

**cuspidatum*. Nearly stemless: capsule nearly sessile: leaves ovate, pointed, spread, connivent when dry. *Dill. t. 32. f. 11.*

**Schreberianum*. Stem branched: capsule globular, nearly sessile: leaves oblong, pointed, erect. *Schreb. phasc. t. 1. f. 1—3.*

- **curvisetum*. Stem short: capsule on a short curved peduncle: leaves ovate-lanceolate, pointed, spreading. *Dickst. 10. f. 4.*
- **muticum*. Stemless: capsule sessile: leaves ovate, without points, concave, connivent. *Dill. t. 32. f. 12.*
- **ferratum*. Stemless: shoots spreading, branched: capsule sessile: floral-leaves erect, lanceolate, ferrate. *Eng. Bot. t. 460.*
- **alternifolium*. Stem with simple branches; barren ones taller and erect: capsule sessile: leaves alternate, subulate. *Dicks. tab. 1. f. 2.*
- **rectum*. Stemless: peduncle longer than the leaves: leaves ovate, without points, spreading. *Eng. Bot. t. 330.*
- **bryoides*. Cauliscent, simple, longer than the leaves: leaves ovate, pointed, erect. *Dicks. t. 10. f. 3.*

1908. SPHAGNUM. Capsule with the mouth naked: veil cut round, its base remaining on the lower part of the capsule.

- **latifolium*. Leaves closely imbricate, concave, ovate, obtuse. *Eng. Bot. t. 1405.*
- **squarrosum*. Leaves closely imbricate, ovate, acute, with recurved carinate points. *Eng. Bot. t. 1498.*
- **capillifolium*. Leaves closely imbricate, ovate-lanceolate, pointed, rather flat. *Eng. Bot. t. 1406.*
- **cuspidatum*. Leaves rather remote, spreading, lanceolate, pointed, undulate. *Dill. t. 32. f. 2. B*
- **magellanicum*. Erect: branchlets alternately fascicled, deflexed, some very short and thick, some long and filiform: leaves oblong, concave, rather obtuse. *Bridel.*
- **condensatum*. Erect, undivided: branchlets every where crowded, spread, ovate lanceolate: leaves oblong, concave, rather obtuse. *Bridel. t. 5. f. 2.*
- **javanse*. Erect, with simple branchlets pointing one way, linear-subulate, falcate, reticulate. *Bridel. t. 5. f. 3.*

1909. GYMNSTOMUM. Capsule with the mouth naked: lid deciduous: veil entire, separating from the base: flowers terminal.

- **Davallianum*. Stem very short: leaves lanceolate, pointed, carinate, spread: capsule campanulate, smooth; lid hemispherical. *Ann. Bot. 1. p. 557.*
- **truncatulum*. Leaves ovate-lanceolate, pointed, flat, spreading, entire: capsule turbinate, truncate. *Curt. Lond. fasc. 2. t. 71.*
- **intermedium*. Leaves ovate lanceolate, pointed, flat, entire, scattered: capsule oblong, truncate. *Turner t. 1. a-c.*
- **obtusum*. Leaves oblong lanceolate, pointed, entire, a little concave and erect: capsule ovate-oblong, with a subulate lid. *Eng. Bot. t. 1407.*

- * *ovatum*. Leaves ovate, obtuse with a point, entire, concave, connivent: capsule ovate. *St. Cr. i. t. 6.*
 - * *osmundacum*. Stem naked at the base: leaves lanceolate, entire, 2-rowed: capsule roundish; lid without point. *Dicks. t. 1. f. 4.*
 - * *Griffithianum*. Leaves spatulate, very obtuse, a little fleshy: capsule obovate; lid without point: peduncle thickened upwards, a little curved. *Dicks. t. 10 f. 10.*
 - * *æruginosum*. Stem branched: leaves subulate, imbricate, carinate, entire: capsule campanulate. *Smith Brit.*
 - * *luteolum*. Stem branched: leaves lanceolate, carinate, concave: capsule oblong; lid hemispherical, with a short point. *Hedw. sp. t. 2. f. 4-7.*
 - * *curvirostrum*. Stem branched: leaves subulate, carinate, recurved: capsule elliptic, with a subulate curved lid. *Hedw. cr. t. 24.*
 - * *stelligerum*. Stem branched: leaves linear, spread; upper-ones stellate: capsule hemispherical; lid oblique; peduncle twisted. *Dicks. t. 4 f. 4.*
 - * *microstomum*. Leaves linear, spreading, curled when dry: capsule contracted at the mouth; lid with a subinclined beak. *Hedw. 3. t. 30. B.*
 - * *fasciculare*. Leaves ovate-lanceolate, acute, minutely ferrate: capsules pear-shaped, with a convex naked lid. *Eng. Bot. t. 1245.*
 - * *pyriforme*. Leaves ovate, acute, concave, spread: capsules pear-shaped; lid obtusely pointed. *Eng. Bot. t. 413.*
 - * *lapponicum*. Stem branched: leaves linear-lanceolate, entire, carinate, spread: capsule truncate, becoming striate. *Hedw. cr. 3. t. 5. A.*
 - * *ciliatum*. Stem much branched: leaves imbricate, ovate, acute, entire, diaphanous at top: capsules sessile, globular. *Eng. Bot. t. 1179.*
 - * *Hiemii*. Leaves broad-lanceolate, pointed, denticulate at top: capsule cylindrical; lid with an oblique beak. *Hedw. cr. 1. t. 30.*
1910. TETRAPHIS. Capsule oblong: fringe simple, of 4 pyramidal erect distinct teeth.
- * *pellucida*. Tetraphis. *Eng. Bot. t. 1020. Dill. t. 31. f. 2.*
1911. ANDRÆA. Capsule very short, turbinate: fringe simple, of 4 incurved concave teeth, united at their tips, and bearing the lid and veil.
- * *alpina*. Leaves ovate, rather obtuse, concave, every where imbricate, erect. *Eng. Bot. t. 1278.*
- * *rupestris*. Leaves linear-lanceolate, carinate, falcate, pointing to one side. *Eng. Bot. t. 1277.*
1912. OCTOBLEPHARUM. Capsule ovate: fringe simple, of 8 unconnected teeth.

albidum. Oðoblepharum. *Bridel. Musc. 2. p. 50. t. 1. f. 7.*

1913. SPLACHNUM. Capsule cylindrical, seated on a fleshy receptacle: *fringe* simple, of 16 teeth standing in pairs.

**nnioides*. Receptacle obconic; green: leaves lanceolate; entire; ending in a flexuous awn. *Hedw. cr. 2. t. 11.*

**tenue*. Receptacle obconic, tapering, brown: leaves ovate-oblong; acute, without awn. *Dicks. t. 4. f. 2.*

**ampullaceum*. Receptacle obconic, obtuse, greenish-purple, swelling leaves lanceolate; pointed; serrate. *Eng. Bot. t. 144.*

**vasculosum*. Receptacle ovate-globular, swelling, reddish: leaves ovate, obtuse. *Hedw. 2. t. 15.*

frælichianum. Receptacle obconic: leaves tongue-shaped and spatulate, concave: capsule oblique. *Hedw. 3. t. 40.*

magellanicum. Receptacle obconic, greenish-brown: leaves oblong-lanceolate, pointed, serrate: capsule oblong-ovate.

Bridel. tab. 6. f. 3.

**lingulatum*. Receptacle obconic, narrower than the capsule, brown: leaves tongue-shaped, obtuse, entire. *Dicks. t. 10. f. 6.*

**reticulatum*. Receptacle obconic, narrower than the capsule, brown: leaves ovate, concave, reticulate, serrate at top. *Dicks. t. 4. f. 6.*

**angustatum*. Receptacle obovate, brownish: leaves lanceolate, with long point; upper-ones serrate. *Eng. Bot. t. 1132.*

**urceolatum*. Receptacle obovate, brownish-green: leaves imbricate, elliptic, concave, entire, awned. *Hedw. cr. 2. t. 13.*

**fastigiatum*. Receptacle obovate-oblong, brown: leaves lanceolate, entire, awned. *Eng. Bot. t. 786.*

**Turnerianum*. Receptacle obovate, green: capsule cylindrical: leaves, ovate, awned, serrate. *Eng. Bot. t. 1116.*

luteum. Receptacle nearly globular, flattish, yellow, many-times larger than the capsule: leaves obovate; those of the sheath awned, entire. *Hedw. 2. t. 17.*

rubrum. Receptacle hemispherical, red turning to yellow, many-times larger than the capsule: leaves obovate, entire; those of the sheath awned, serrate. *Hedw. 2. t. 18.*

bavaricum. Receptacle ovate, wider than the capsule, deep red: leaves ovate; with long awns, serrate at top. *Bridel.*

caulescens. Receptacle cylindrical: stem branched: leaves linear, with long setaceous points. *Linn. Trans. 3. t. 20. f. 2.*

**ovatum*. Receptacle ovate, brownish; leaves ovate, acute; entire. *Dill. t. 44. f. 4.*

**rugosum*. Receptacle globular, becoming wrinkled, blackish, leaves broad-ovate, acute, entire. *Dicks. t. 10. f. 7.*

**sphaericum*. Receptacle globular, green, on a capillary flexuous peduncle: leaves ovate, pointed, entire. *Eng. Bot. t. 785.*

**gracile*. Receptacle globular, ferruginous, on a capillary flexuous peduncle; leaves ovate, pointed, ferrate at top. *Dicks. t. 10 f. 5.*

1914. ENCALYPTA. Capsule cylindrical: fringe simple, of 16 linear erect distinct teeth: veil campanulate, inflated lax.

**vulgaris*. Stem simple: leaves lanceolate, acute, entire: veil conic; entire, smooth. *Eng. Bot. t. 558.*

**lanceolata*. Nearly simple: leaves lanceolate, pointed, concave: veil covering half the capsule, opening laterally: lid oblique.

Hedw. 2. t. 23.

**alpina*. Stem branched: leaves lanceolate, pointed, entire: veil roughish at the margin. *Eng. Bot. t. 1419.*

**ciliata*. Stem branched: leaves lanceolate, acute, entire: veil fringed at the margin. *Eng. Bot. t. 1418.*

**streptocarpa*. Stem branched: leaves oblong, entire: capsule spirally grooved: veil contracted and jagged at the margin.

Hedw. sp. tab. 10. f. 10—15.

**Daviesii*. Stem branched: leaves lance-subulate: veil grooved; jagged on the margin. *Eng. Bot. t. 1281.*

1915. GRIMMIA. Capsule ovate: fringe simple, of 16 undivided teeth broader at the base: veil cylindrical: flowers terminal.

**recurvata*. Leaves setaceous, entire, spread: capsule pear-shaped, smooth, on a curved peduncle. *Hedw. 1. t. 38.*

**pusilla*. Leaves setaceous, spread: capsule ovate, smooth, on an erect peduncle. *Hedw. 2. t. 29. A.*

**friata*. Leaves linear, carinate, acute, curled: capsule oblong, grooved, with an oblique beak. *Dicks. t. 7. f. 4.*

**Schisti*. Leaves subulate, carinate, incurved when dry: capsule oblong, grooved, strumous at the base; lid conic.

Flor. Dan. tab. 583. f. 2.

**Starkeana*. Leaves ovate with a small point, spread: capsule elliptic, with an obtuse lid. *Dicks. t. 10. f. 17.*

**lanceolata*. Leaves oblong, concave, awned: capsule oblong-ovate; lid subulate, oblique. *Eng. Bot. t. 1408.*

sylvatica. Stem branched: leaves lanceolate: capsules oblong, peduncled, axillary and terminal; lid with an obtuse beak: veil villous. *Flor. Dan. t. 648. f. 1.*

**calcareæ*. Leaves cylindrical, subulate, broad at the base: capsule turbinate, erect: lid subulate, curved. *Eng. Bot. t. 191.*

**controversa*. Leaves linear-subulate, ferrate at top, curled when dry: capsule elliptic; lid subulate, slightly curved. *Eng. Bot. t. 1376.*

**Dicksoni*. Leaves lanceolate, carinate, curled when dry: capsule elliptic; lid subulate, slightly curved. *Eng. Bot. t. 1420.*

- cribrosa*. Erect, simple: leaves lanceolate, imbricate, spread; the upper-ones awned: capsules ovate: lid conic. *Hedw. 3. t. 31. B.*
- **cirrata*. Leaves setaceous, carinate, curled when dry, capsule ovate, dilated at top. *Vaill. Par. t. 24. f. 8.*
- **recurvirostra*. Leaves linear-lanceolate, carinate, spread; capsule cylindrical; lid conic, recurved. *Eng. Bot. t. 1438.*
- **verticillata*. Leaves linear-subulate, spread in interrupted tufts: capsule ovate; lid subulate, curved. *Eng. Bot. t. 1258.*
- **crispula*. Leaves lance-subulate, carinate, curled when dry: capsule elliptic; lid subulate, oblique. *Hedw. spec. t. 12. f. 1-6.*
- **acuta*. Leaves lance-subulate, carinate, nerveless, rather pointing one way; capsule turbinate; lid setaceous oblique. *Dill. t. 47. t. 37.*
- **inclinata*. Leaves setaceous, broader and sheathing at the base: capsule ovate, oblique, drooping; lid conic, short. *Hedw. 2. t. 27.*
- **homomalla*. Leaves setaceous, broader at the base, leaning one way: capsule ovate, erect: lid conic: teeth of the fringe standing in pairs. *Hedw. sp. t. 23. f. 1-7.*
- **heteromalla*. Leaves setaceous; broader at the base, leaning one way: capsule ovate, erect; lid conic: teeth of the fringe solitary. *Hedw. cr. 1. t. 8.*
- **Nigrita*. Leaves lanceolate, pointed, entire: capsules ovate, drooping; lid hemispherical, umbonate. *Hedw. 3. t. 39.*
- **Forsteri*. Leaves ovate, concave, entire: capsules oblong, erect; lid subulate, oblique. *Dicks. t. 7. f. 8.*
- **conoforma*. Leaves lanceolate, ferrulate, awned, imbricate in 5 rows: capsule roundish-ovate; fringe cohering at top. *Eng. Bot. t. 1135.*
- **nuda*. Leaves lanceolate, entire, acute; capsule roundish-ovate, drooping: lid conic, oblique: stem none. *Eng. Bot. t. 142.*
- **Browniana*. Leaves dotted; radical-ones linear, flat; floral-ones ovate, concave, acute: capsule elliptic: lid conic, curved: stem none. *Eng. Bot. t. 1422.*
- **splachnoides*. Leaves spatulate-ovate, acute, ferrate: capsule globular: peduncles thickened at top. *Dicks. t. 10. f. 9.*
- **Donniana*. Leaves lanceolate, entire, awned: capsule elliptic: fringe imperforate lid straight. *Eng. Bot. t. 1259.*
- **alpicola*. Leaves lanceolate, rather obtuse, awnless: capsule obconic, nearly sessile: fringe imperforate: lid oblique. *Hedw. sp. t. 15. f. 1-5.*
- **maritima*. Leaves linear-lanceolate, acute, awnless: capsule turbinate: fringe imperforate: lid nearly straight. *Turn. Musc. t. 3 f. 2.*
- **stricta*. Leaves lanceolate, acute, imbricate, spreading: capsule turbinate, lid obtuse; branches spreading, stiff. *Turn. Musc. tab. 2. f. 1.*
- **apocarpa*. Leaves ovate-lanceolate, pointed; upper-ones awned: capsule ovate, sessile: stem much branched. *Engl. Bot. t. 1134.*

**rivularis*. Leaves lance-ovate, awnless: capsule turbinate; lid straight: stem much branched. *Eng. Bot.* 1345.

1916. PTEROGONIUM. Capsule oblong: *fringe* simple, of 16 or 32 linear erect undivided teeth: *flowers* lateral.

**sciuroides*. Stem ereeping, branched: branches nearly simple, incurved when dry: leaves ovate, acute, striate, entire: veil smooth. *Dill. t. 4. f. 54.*

**Smithii*. Stem much branched, creeping: branches pinnate, incurved when dry: leaves roundish-ovate, obtuse, concave, entire: veil hairy. *Eng. Bot. t. 1326.*

**gracile*. Stem creeping: branches tufted, recurved: leaves broad ovate, serrulate: veil hairy. *Dill. t. 41. f. 55.*

filiforme. Prostrate: branches few, simple, filiform: leaves ovate, pointed, concave, closely imbricate: capsule cylindrical: lid beaked. *Hedw. 4. t. 7.*

catenulatum. Ascending, divided, with round obtuse incurved branches: leaves ovate-lanceolate, pointed, concave, nerved, closely imbricate. *Bridel. 2. t. 5. f. 4.*

algerianum. Creeping, divided, with erect crowded branches: leaves linear-lanceolate, entire, nerved, spread: capsule ovate, inclined: lid beaked. *Bridel. 2. t. 6. f. 7.*

julaceum. Ascending, with crowded erect round simple branches: leaves ovate, acute; those of the sheath very narrow, nearly as long as the peduncle: capsule erect, ovate: lid conic.

Hedw. 4. t. 20.

fulgens. Vaguely scattered, flat: leaves 2-rowed, ovate-oblong, obtuse with a point, carinate, pellucid: capsule ovate: lid subulate. oblique. *Hedw. 4. t. 39.*

aureum. Vaguely branched, flattish: branches simple, compressed: leaves imbricate 4-ways, ovate with a point, concave.

Bridel. 2. t. 6. f. 10.

1917. TRICHOSTOMUM. Capsule oblong: *fringe* simple, of 32 filiform teeth, standing together in pairs, or united in pairs at the base.

A. *Teeth of the fringe unconnected at the base.*

**trifarium*. Stem branched: leaves lance-subulate, spreading, carinate, entire, 3-rowed: capsule ovate. *Hedw. 2. t. 28.*

**capillaceum*. Stems simple: leaves capillary, spread, 2-rowed: capsule oblong, erect: lid conic. *Engl. Bot. t. 1152.*

**pusillum*. Stem simple: leaves concave, ovate, with subulate points: capsule oblong, erect: lid subulate. *Hedw. 1. t. 28.*

**rigidulum*. Stem branched: leaves linear lanceolate, pointed, entire: capsule elliptic: lid subulate. *Hedw. 3. t. 4.*

**papillosum*. Stem branched: leaves linear-subulate, carinate: capsule a little inclined, ovate-oblong, gibbous on the inside at the base: lid conic. *Dicks t. 11. f. 5.*

B. *Teeth of the fringe connected at the base.*

**polyphyllum*. Leaves linear-lanceolate, carinate, ferrate at top, twisted when dry: capsule elliptic, erect.

Eng. Bot. tab. 1217. Dicran.

**heterostichum*. Leaves lance-linear, with a pellucid denticulate point: capsule elliptic, erect: stem branched, spread.

Eng. Bot. tab. 1347.

indicum. Stem branched, erect: leaves lanceolate, convolute; peduncles thickened upwards, axillary: capsule oblong: lid conic.

Bog. Mag. 4. t. 1. f. 1.

**lanuginosum*. Stem pinnately branched, decumbent: leaves linear-lanceolate, reflected, with a diaphanous denticulate point: capsule ovate. *Eng. Bot. t. 1348.*

**ericoides*. Stem pinnately branched, erect: leaves lanceolate, pointed, capsule elliptic: lid beaked. *Dill t. 47 f. 31.*

**fasciculare*. Stem pinnately branched, procumbent: leaves lanceolate, pointed, entire, revolute: capsule ovate-oblong.

Dill. tab. 47. f. 28.

**canescens*. Stem branched: leaves ovate-lanceolate, striate, reflected, with a ferrulate diaphanous point: capsule ovate; lid subulate.

Dill. t. 47. f. 27 f. B—E.

**angustatum*. Stem branched: leaves lance-subulate, twisted when dry: capsules oblong. *Schrader.*

**pallidum*. Stem simple, very short: leaves capillary, sheathing: capsule cylindrical: lid conic: veil halved. *Hedw. 1 t. 27.*

**basiflorum*. Stem branched: leaves lanceolate, erect, those of the sheath obtuse: peduncles from the base of the branches, bracteate: lid conic, a little oblique. *Schrank.*

**tortum*. Branched: leaves narrow lanceolate, rigid, nerved, twisted when dry: capsule curved, lid conic. *Bridel.*

**repens*. Stem creeping, with filiform erect branches: leaves lanceolate, spreading, nerveless: capsule erect, at length incurved.

Schrank.

**microcarpon*. Stem branched, spread: leaves lanceolate, carinate, pointed, a little diaphanous at top: capsule ovate. *Eng. Bot. t. 1440*

**obtusum*. Stem branched, diffuse: leaves lanceolate, carinate, pointed, entire, revolute: lid hemispherical, without beak.

Dill. t. 47. f. 30.

**glaucescens*. Stem erect, slightly branched: leaves linear-lanceolate, acute, a little glaucous: capsule ovate. *Hedw. 3. t. 37. B.*

**piliferum*. Nearly stemless: leaves ovate, a little concave, ending in long subulate points: capsule ovate. *Dicks. t. 10. f. 14.*

**flexifolium*. Stem branched at the base: leaves oblong, sheathing, flexuous, serrate at top: capsule cylindrical. *Dicks. t. 7. f. 9.*

**lineare*. Stem erect: simple: leaves linear lanceolate, acute, entire: peduncle thickened upwards: capsule elliptic: lid conic, oblique. *Dicks. t. 8. f. 2.*

**linoides*. Stem nearly simple: leaves oblong, rather obtuse, with a small point: capsule cylindrical: veil subulate, very long. *Dicks. t. 8. f. 3.*

**fontinalioides*. Stem branched: leaves lanceolate, concave, spread: capsules nearly sessile, on the tips of the branchlets. *Eng. Bot. t. 557.*

1918. DICRANIUM. Capsule ovate-oblong: fringe simple, of 16 broadish inflected cloven teeth.

A. Leaves 2-rowed, compressed.

**bryoides*. Stem simple: leaves alternate, ovate-oblong, pointed: capsule terminal, erect. *Eng. Bot. t. 625.*

**tamarindifolium*. Stem simple: leaves imbricate, ovate: capsule terminal, drooping: lid conic. *Flor. Brit.*

**osmundioides*. Erect, simple: leaves oblong, rather obtuse: capsule terminal, erect: lid with a long beak. *Dicks. t. 5. f. 5.*

**taxifolium*. Stem simple: leaves oblong-lanceolate, acute: capsule nearly radical, inclined: lid beaked. *Eng. Bot. t. 426.*

**viridulum*. Stem simple: leaves few, imperfectly 2-rowed, elliptic-lanceolate, acute: capsule terminal: lid swelling at the base. *Eng. Bot. 1368.*

paumatum. Decumbent, simple: leaves lanceolate, distant, spread: capsule terminal, drooping: lid subulate, oblique. *Hedw. 3. t. 30.*

polypodioides. Erect, simple: leaves oblong, rather obtuse, spread: capsule nearly terminal, erect: lid subulate, oblique. *Hedw. 3. tab. 27.*

Novæ Hollædiæ. Erect, simple, naked at bottom: leaves alternate, ovate-lanceolate, pointed; those of the sheath very long: peduncle radical, twice as long as the frond: capsule ovate, inclined. *Bridel. t. 6. f. 11.*

Weberi. Nearly erect, simple and branched: leaves lance-subulate, entire, much spread: capsule nearly radical, ovate, inclined: lid conic. *ridel.*

acacioides. Erect, simple and branched: leaves ovate, acute: peduncle terminal, very short: capsule erect, urn-shaped. *Dill. t. 34. f. 4.*

spiniforme. Stem simple: leaves subulate, spreading: capsule radical, drooping. *Dill. tab. 43. f. 68.*

ornithopodoides. Spreading: capsules lateral, drooping. *Dill. t. 34. f. 9.*

semicompletum. Branched: leaves alternate; lower-ones slightly bracted; upper-ones lanceolate, half-sheathing: capsules nearly sessile. *Hedw. 3. t. 13.*

- **adiantoides*. Erect, branched: leaves ovate-lanceolate, sheathing: capsules inclining, from about the middle: lid subulate, erect.
Eng. Bot. t. 264.
B. *Leaves pointing one way or spreading.*
- **scoparium*. Branched, erect: leaves lance-subulate, spread at top: capsule solitary, oblique, with a subulate lid. *Eng. Bot. t. 354.*
- **majus*. Branched, erect-recurved: leaves lance-subulate, serrate at top, falcate: capsules aggregate, oblique: lid subulate.
Eng. Bot. t. 1409.
- **undulatum*. Branched, erect: leaves lanceolate, undulate, serrate at top: capsules clustered; lid subulate. *Musc. Swec. t. 3. f. 5.*
- **fuscescens*. Branched, erect: leaves subulate, falcate, carinate: capsule solitary, curved, grooved: lid subulate.
Turn. Musc. t. 5. f. 1.
- **flagellare*. Somewhat branched, erect: leaves lance-subulate, nearly nerveless: capsule cylindrical, erect, grooved: lid subulate, incurved. *Hedw. 3. t. 1.*
- **heteromallum*. Nearly simple: leaves falcate, capillary, broader at the base: capsule obovate, gibbous, inclined: lid subulate, incurved. *Dill. t. 47. f. 37.*
- **interruptum*. Somewhat branched: leaves falcate, capillary, broader at the base, interruptedly 1-rowed, curled when dry: capsule ovate: lid subulate, straight. *Dill. t. 47. f. 38.*
- **fulvellum*. Branched: leaves falcate, setaceous, nerved: capsule turbinate, grooved, erect. *Dicks. tab. 11. f. 1.*
- **rigidulum*. Stem becoming branched: leaves falcate, lanceolate, pointed, a little rigid: capsule turbinate, inclined: lid conic, obtuse. *Eng. Bot. t. 1439.*
- **aciculare*. Branched: leaves oblong ovate, obtuse: capsule elliptic, erect: lid subulate, straight. *Dill. t. 46. f. 26.*
- **patens*. Branched, spreading: leaves linear-lanceolate, acute, stiff: capsules oblong, erect. *Dicks. t. 4. f. 8.*
- **ellipticum*. Simple, tufted: leaves linear-lanceolate, erect-spread: capsule ovate-elliptic: lid conic, straight. *Turner Musc. t. 6. f. 2.*
- **subulatum*. Stem simple: leaves setaceous, broad at the base, somewhat falcate: capsule oblong, drooping: lid subulate, nearly straight. *Eng. Bot. t. 1273.*
- **callistomum*. Stem simple: leaves lanceolate, pointed, erect and spread: capsule ovate-turbinate, inclined: lid conic.
Dicks. tab. 7. f. 10.
- **cerviculatum*. Stem simple, very short: leaves subulate, nerveless, lax: capsule ovate, strumiferous, inclined: lid subulate, incurved.
Hedw. 3. t. 37. A.
- **parvulum*. Stem simple: veins short: leaves capillary, nerveless, a little rigid: capsule oblong, strumiferous: lid setaceous, incurved.
Hedw. 2. t. 29. B.

- **crispum*. Stem simple, very short: leaves capillary, nerveless, somewhat 2-rowed, sheathing: capsule erect, grooved: lid subulate, oblique. *Eng. Bot. t. 1151.*
- **uncinatum*. Nearly simple: leaves setaceous carinate, pointing one way: capsule drooping, strumiferous: lid subulate, incurved. *Dicks. t. 11. f. 8.*
- **falcatum*. Nearly simple: leaves setaceous, 1-nerved: capsule obovate, inclined, strumous at the base: lid subulate, oblique. *Hedw. sp. t. 32. f. 1-7.*
- **varium*. Nearly simple: leaves lance-subulate, 1-nerved, spread, flexuous at top: capsule inclined, turbinate: lid conic, slightly curved. *Eng. Bot. t. 1215.*
- **rufescens*. Stem simple: leaves linear-lanceolate, reticulate, ferrate: capsule ovate, erect: lid conic, slightly curved. *Eng. Bot. t. 1216.*
- **ovale*. Branched: leaves lance-subulate, with a hoary tip; capsule ovate, erect: lid cuspidate, straight. *Hedw. 3. t. 34. A.*
- **pulvinatum*. Branched: leaves ovate-lanceolate, pinniferous: capsule ovate, immersed in the leaves, inclined: lid subulate, straight. *Hedw. sp. t. 40. f. 1-3.*
- **purpureum*. Branched at top: leaves lanceolate, pointed, twisted when dry: capsule cylindrical, inclined: lid conic. *Dill. t. 49. f. 51.*
- **glaucum*. Branched at top: leaves crowded, erect, lanceolate, pointed, nerveless: capsule ovate, inclined: lid subulate, curved. *Dill. t. 46. f. 20.*
- **bipartitum*. Forked or branched at top: leaves ovate-lanceolate, lid conic. *Dill. t. 49. f. 50.*
- **strictum*. Forked or branched at top: leaves lance-subulate: capsule cylindrical, inclined: lid conic. *Dill. t. 49. f. 52.*
- **Celsii*. Stem very short, nearly simple: leaves oblong-lanceolate, pointed: capsule cylindrical, strumous at the base, nearly erect: lid conic. *Dill. t. 49. f. 54.*
- **viridissimum*. Branched at top: leaves crowded, oblong, pointed, reflected: capsule ovate, erect: lid conic. *Dicks. t. 10. f. 18.*
- **flavescens*. Branched at top: leaves linear-lanceolate, pointed, carinate, reflected: capsule cylindrical, erect: lid short, incurved. *Dicks. t. 4. f. 5.*
- **pauciflorum*. Simple, very short: leaves capillary, obtuse, sheathing: peduncle flexuous: capsule ovate, nearly erect: lid subulate. *Dicks. t. 11. f. 3.*
- **spurium*. Branched: leaves broad lanceolate, concave, carinate: capsule cylindrical, curved: lid subulate. *Hedw. 2. t. 30.*
- **pellucidum*. Branched: leaves linear-lanceolate, curved when dry; carinate, much spread: capsule ovate, inclined: lid conic. *Eng. Bot. t. 1346.*

**virens*. Slightly branched: leaves linear-lanceolate, pointed; carinate: capsule oblong-ovate, curved, strumous at the base.

Eng. Bot. t. 1462.

**strumiferum*. Branched: leaves lance-linear; twisted when dry: capsule oblong, curved, grooved, strumous at the base.

Hedw. 2. t. 32.

**polycarpon*. Branched: leaves linear-lanceolate, twisted when dry: capsule obovate; nearly straight, grooved. *Hedw. 2. t. 31.*

**hyperporeum*. Simple: leaves capillary, crowded, stiff: capsule ovate, erect, on a short peduncle. *Flor. Dan. t. 538 f. 1.*

**Scottianum*. Branched: leaves subulate, broader at the base, 1-nerved: capsule ovate-oblong: peduncle curved: lid subulate.

Eng. Bot. t. 1391.

**squarrosum*. Branched at top: leaves ovate: pointed, recurved: capsule ovate, inclined: lid conic. *Dill. t. 46. f. 24.*

**montanum*. Branched; leaves linear-lanceolate, subulate at top, curled when dry: capsule cylindrical, straight: lid subulate.

Hedw. sp. t. 35. f. 8—13.

**flexuosum*. Somewhat branched: leaves setaceous, nerveless: peduncle flexuous: capsule elliptic, erect: lid subulate, straight.

Dill. t. 47. f. 33.

**latifolium*. Erect: leaves oblong dilated, concave, ending in a short hair: capsule cylindrical, straight. *Hedw. 4. t. 33.*

tortile. Somewhat branched: leaves subulate-carinate, reflected, twisted when dry: capsules oblong: lid beaked. *Schrad.*

candidum. Erect, branched, forked, brittle: leaves imbricate, ovate, recurved, white: peduncles at the end of the lateral branches: capsule corn-shaped. *Dill. t. 46. f. 22.*

albidum. Erect, branched, brittle: leaves imbricate, subulate, broader at the base: capsule terminal, curved, nodding: lid subulate, curved. *Dill. t. 83. f. 8.*

**ambiguum*. Erect, simple: leaves imbricate 4-ways, ovate-lanceolate, pointed: capsule strumous on a long receptacle, ovate, drooping: lid oblique. *Hedw. 3. t. 36.*

Biliarderii. Erect, divided: leaves sheathing, filiform, entire, very long, falcate, pointing one way: capsule oblong, drooping, strumous at the base. *Bridel. 2. t. 6. f. 12.*

hercinica. Slightly divided: leaves lance-linear, rather obtuse, awned: capsule oblong, nearly erect: lid subulate. *Schrad. spic.*

curta. Simple, linear: leaves alternate, lanceolate, pointed: capsule cylindrical, erect: lid conic, rather oblique.

Hedw. 3. tab. 31.

conica. Simple: leaves oblong, acute, carinate, curled when dry: capsule somewhat conic: lid subulate. *Dill. 49. 56.*

**agraria*. Nearly simple: leaves spatulate-lanceolate, pointed, concave, flat-topped, rigid: capsule erect, cylindrical: lid subulate.

Hedw. 3. t. 6.

- nervosa*. Erect, slightly branched: branches thickened: leaves linear-lanceolate, pointed, imbricate, erect: capsule oblong: lid rather oblique. *Bridel*.
- atlantica*. Slightly branched, erect: leaves lax, linear, flattish, straight, nerved: capsule oblong ovate. *Bridel. t. 6 f. 7.*
- Saussuriana*. Slightly branched: leaves lance subulate: capsule oblong, inclined: lid conic. *Bridel*.
- * *rigida*. Stem very short: leaves ovate, obtuse, spreading, rigid, involute: capsule cylindrical: lid conic. *Eng. Bot. t. 180.*
- * *subulata*. Nearly simple, very short: leaves oblong, obtuse, with a point: capsule cylindrical: lid subulate, erect. *Eng. Bot. t. 1101.*
- * *humilis*. Nearly simple, short: leaves oblong-spatulate with a point, carinate, crowded, erect-spread: capsule oblong: lid subulate. *Hedw. sp. t. 25. f. 1-4.*
- * *apiculata*. Stem short, simple: leaves rather remote, oblong-lanceolate with a point, erect-spread: capsule oblong: lid beaked. *Hedw. sp. t. 26. f. 1-3.*
- * *micronulata*. Stem slightly divided: leaves spreading, linear-lanceolate, pointed, carinate: capsule ovate-oblong: lid subulate. *Eng. Bot. t. 1299.*
- * *unguiculata*. Somewhat branched: leaves lance-subulate, carinate, pointed, spread: capsule oblong: lid curved. *Dill. t. 48. f. 47.*
- * *fallax*. Branched: leaves linear lanceolate, pointed, carinate, recurve-spreading: capsule oblong, lid oblique. *Dill. t. 48. f. 46.*
- * *convoluta*. Somewhat branched: leaves oblong, carinate, recurve-spreading; those of the fructification obtuse, convolute in a cylinder: capsule elliptic: lid oblique. *Dill. t. 48. f. 44.*
- setacea*. Branched: leaves setaceous, rigid: capsule erect, cylindrical: lid filiform, very long. *Bridel*.
- Schreberi*. Very short: leaves subulate, dilated at the base, undulate, twisted when dry: capsule oblique: lid conic. *Bridel*.
- acuminata*. Cauliscent: leaves linear: capsule cylindrical, erect: lid subulate. *Swart. prodr.*
- pilosa*. Branched: leaves linear-lanceolate, carinate, awned: capsule ovate-oblong: lid subulate. *Schrad.*
- * *stellata*. Stemless: leaves ovate-lanceolate, carinate, incurved: capsule ovate-cylindrical, grooved, erect: lid oblique. *Flor. brit.*
- * *ruralis*. Branched: leaves ovate, obtuse, recurved, awned; upper ones stellate: capsule cylindrical: lid conic. *Dill. t. 45. f. 12.*
- * *muralis*. Stem very short, slightly branched: leaves ovate-spatulate, awned: capsule erect, cylindrical: lid conic. *Dill. t. 43. f. 14.*

- * *cuneifolia*. Stem very short, slightly branched: leaves ovate-spatulate, pointed, reticulate, pellucid, spread: capsule cylindrical: lid conic. *Dill. t. 45. f. 15.*
- * *ericetorum*. Branched: leaves linear-lanceolate, acute, twisted when dry; upper-ones stellate: capsule ovate-oblong. *Dill. t. 45. f. 13.*
- * *tortuosa*. Branched: leaves subulate, spread, twisted when dry; capsule ovate-oblong: lid conic, erect. *Dill. t. 48. f. 40.*
- * *brevifolia*. Branched: leaves ovate-lanceolate, carinate, revolute: capsule oblong, lateral. *Dill. t. 47. f. 39.*
- * *barbata*. Branched at the base: leaves oblong-lanceolate, spread, a little revolute: capsule ovate, lateral. *Curt. Lond. 4. t. 65.*
- * *imberbis*. Branched: leaves linear, spread, ovate at the base: capsule elliptic oblong, nearly terminal: lid subulate, curved. *Dill. t. 48. f. 46.*
- * *aristata*. Branched: leaves oblong, obtuse with a point, curled when dry: capsule cylindrical: lid subulate, curved. *Dicks. t. 11. f. 7.*

1920. **POLYTRICHUM.** Capsule oblong or quadrangular: fringe simple, of 32 or 64 short incurved teeth, connected at top by a flat membrane: veil hairy, often double.

A: Stemless or nearly so.

- tenue*. Leaves lanceolate, pointed, appressed, entire: capsule turbinate, erect. *Dill. t. 55. f. 12.*
- * *subrotundum*. Leaves lanceolate, obtuse, entire, rigid: capsule cylindrical, erect: lid conic. *Dill. t. 55. f. A-G.*
- * *nanum*. Leaves linear-lanceolate, rather obtuse, entire, rigid: capsule turbinate, drooping: peduncle flexuous. *Dill. t. 55. f. H-L.*

B. Stem simple.

- * *aloides*. Leaves linear-lanceolate, rather obtuse, ferrate at top: capsule cylindrical, oblique. *Dill. t. 55. f. 7.*
- convolutum*. Leaves linear, involute, ferrate at top, twisted when dry: capsule cylindrical, nearly erect. *Linn. Musc. t. 1. f. 3.*
- Magellanicum*. Leaves linear-lanceolate, acute, tooth-ferrate: capsule oblong cylindrical, nearly erect: veil simple. *Linn. Trans. 4. t. 6. f. 1.*
- * *attenuatum*. Leaves linear-lanceolate, acute, ferrate, spread: capsule square, drooping, contracted at the base. *Eng. Bot. t. 1198.*
- * *gracile*. Leaves linear-lanceolate, acute, ferrate, spread: capsule obovate, a little angular, oblique, contracted at the base. *Linn. Trans. 4. t. 6. f. 3.*

* *commune*. Leaves linear-lanceolate, acute, ferrulate, spread : capsule square, on a roundish receptacle. *Eng. Bot. t. 1197.*

* *piliferum*. Leaves lance-subulate, entire, rigid, awned : capsule square, ovate, on a depressed receptacle. *Eng. bot. t. 1199.*

* *juniperinum*. Leaves linear-lanceolate, pointed, entire, inflected at the edges, rough on the keel : capsule square, on a flat receptacle. *Eng. bot. t. 1200.*

* *Dicksoni*. Leaves linear-lanceolate, obtuse; ferrate on the edge and keel : capsule cylindrical, erect : lid conic.

Turn. Musc. t. 10. f. 2.

glabrum. Leaves linear lanceolate, entire, smooth on the keel : capsule square : lid flat, mucronate. *Bridel.*

controversum. Leaves lanceolate, carinate, ferrate, undulate, nearly erect : capsule cylindrical, assurgent ; lid conic.

Hedw. 1. t. 17. f. 14, 15, 17, 18.

C. More or less branched.

* *undulatum*. Leaves lanceolate, ferrate : capsule cylindrical, drooping : lid subulate : veil naked. *Eng. Bot. t. 1220.*

* *hercynicum*. Leaves linear, incurved when dry, mostly entire : capsule ovate cylindrical, erect : veil single, hairy when young. *Eng. Bot. t. 1219.*

* *strictum*. Leaves lanceolate, nearly erect, entire, inflected at the edges : capsule square, on a depressed receptacle.

Linn. Trans. 4. t. 7. f. 1.

contortum. Leaves linear-lanceolate, ferrate, involute, twisted when dry : peduncles lateral. capsule cylindrical, nearly erect.

Linn. Trans. 4. t. 7. f. 2.

* *rubellum*. Leaves lanceolate, carinate, rather obtuse, ferrate, denticulate on the keel. capsule cylindrical, nearly erect.

Linn. Trans. 4. t. 7. f. 3.

dentatum. Leaves lanceolate, acute, prickly-toothed : capsule cylindrical, nearly erect. *Linn. Trans. 4. t. 7. f. 4.*

* *urnigerum*. Leaves lanceolate, ferrate, spread : capsule cylindrical, erect : lid pointed. *Eng. Bot. t. 1218.*

septentrionale. Leaves lanceolate, acute, obscurely ferrulate at top : capsule ovate, nearly erect : lid mucronate, recurved.

Linn. Trans. 4. t. 7. f. 5.

* *alpinum*. Leaves lance-subulate, ferrulate, recurve-spread : capsule ovate, drooping, on an obscure receptacle : lid curved.

Dill. t. 55. f. 4.

sylvaticum. Leaves linear-lanceolate, pointed, ferrate, rigid : capsule oblong, drooping : lid subulate, curved.

Linn. Trans. 4. t. 7. f. 6.

Oederi. Much branched; leaves subulate, entire: capsule ovate, erect: lid curved.

dendroides. Trunk erect, 2-sided: branches fascicled, flat-topped, nearly simple: leaves long, filiform, slightly ferrate, curved at top. *Bridel t. 5 f. 6*.

1921. ORTHOTRICHUM. Capsule ovate-oblong: fringe double; outer of 16 teeth placed in pairs; inner of 8 or 16 filiform teeth, which are sometimes wanting: veil conic, mostly clothed with erect hairs.

A. *Fringe simple.*

* *anomalum*. Branched. leaves lanceolate, carinate, rather obtuse, revolute at the edges: veil hairy, toothed at the base. *Eng. Bot. t. 1423.*

* *nudum*. Branched: leaves ovate-lanceolate, carinate: veil naked, nearly entire. *Eng. Bot. t. 1325.*

B. *Fringed double.*

* *striatum*. Branched: leaves lanceolate, acute, carinate, spread: veil hairy, entire. *Dill. t. 55 f. 8.*

* *affine*. Branched: leaves lanceolate, obtuse, carinate, spread, revolute at the edges: veil hairy, nearly entire. *Eng. Bot. t. 1323.*

* *obtusifolium*. Slightly branched, erect: leaves ovate, concave, obtuse: veil campanulate, nearly glabrous: capsule ovate, sessile: lid conic, rather obtuse. *Bridel.*

* *Oblepharis*. Branched, erect: leaves oblong-lanceolate, obtuse, concave, carinate: veil striate, 8-angled, hairy. *Bridel.*

* *pumilum*. Nearly simple: leaves ovate-lanceolate, carinate, acute, revolute at the edges: outer-fringe 8-toothed: veil naked. *Swart. Musc. t. 4. f. 9.*

* *diaphanum*. Slightly branched: leaves lanceolate, with diaphanous points, revolute at the margin: veil nearly naked, slightly crenate. *Eng. Bot. t. 1324.*

* *aristatum*. Nearly simple: leaves obovate-oblong, obtuse with a diaphanous point: veil naked, toothed. *Turn. t. 9. f. 2.*

* *rivulare*. Branched: leaves oblong, rather obtuse, revolute at the edges: veil naked: toothed. *Turn. Musc. t. 8*

* *crispum*. Branched: leaves linear-lanceolate, recurved and waved when dry: peduncles longer than the leaves, thickened at top: veil hairy. *Eng. Bot. t. 996.*

1922. NECKERA. Capsule oblong: fringe double; outer of 16 acute teeth; inner of 16 filiform distinct teeth, alternating with the outer-ones: flowers lateral.

* *crispa*. Branched, flat: leaves 2-rowed, oblong, pointed, transversely wrinkled: lid with a curved beak. *Eng. Bot. t. 617.*

- * *pumila*. Branched, flat : leaves 2 rowed, ovate, concave : peduncle about as long as the sheath. *Eng Bot. t. 1443.*
- * *pennata*. Decumbent, branched : leaves 2-rowed, lanceolate, crowded : capsule ovate, immersed in the sheath. *Hedw. 3. t. 19.*
- * *undulata*. Decumbent, pinnately branched : leaves 2 rowed, oblong, truncate at top : capsule ovate, immersed in the very long sheath : lid subulate. *Hedw. 3. t. 21.*
- * *patagonica*. Creeping, pinnately branched : leaves 2-rowed, flat, obtuse, recurved : capsule immersed in the sheath : lid cuspidate, incurved. *Dill t. 32. f. 7.*
- * *disticha*. Erect, slightly branched : leaves 2 rowed, flat, retuse : capsule immersed in the very long sheath : lid conic, oblique. *Hedw. 3. t. 23.*
- * *heteromella*. Branched, diffuse : leaves ovate, pointed, concave, imbricate : capsules sessile, leaning one way : lid conic. *Eng Bot. t. 1180.*
- * *heterophylla*. Erect, with 2-edged branches ; upper branchlets square : leaves 3-rowed ; lateral-ones spread, obtuse ; middle-ones imbricate, acute : capsule immersed in the sheath. *Bridel.*
- * *flicina*. Erect, with pinnate, approximate rather compressed branches : leaves ovate, acute, concave ; those of the sheath very long, pointed, covering the capsule : lid conic. *Hedw. 3. t. 18.*
- * *hypnoides*. Depressed, branched : leaves oblong-ovate, with the nerve forked : capsule immersed in the sheath : lid pointed. *Hedw. 3. t. 17.*
- * *filiformis*. Pendulous, filiform, branched : leaves ovate, pointed, concave ; those of the sheath very long, awned, covering the capsule : lid inflated, conic, obtuse. *Hedw. 3. t. 16.*
- * *macropoda*. Decumbent, branched : leaves somewhat 2-rowed, lanceolate, rather concave : peduncles very long : capsules cylindrical, erect : lid conic. *Hedw. 3. t. 23.*
- * *curtipendula*. Branched, spreading : leaves ovate, pointed, spread : capsules drooping, on long peduncles. *Eng. Bot. t. 1444.*
- * *viticulosa*. Creeping : branches erect, nearly simple : leaves ovate-lanceolate, acute, spread, a little undulate : capsule cylindrical : lid pyramidal. *Eng. Bot. t. 265.*

1923. BUXBAUMIA. Capsule ovate, oblique, gibbous on one side at the base : fringe double ; outer of 16 short truncate teeth, inner a plaited membrane.

- * *aphylla*. Capsule peduncled : leaves 0. *Dill. t. 68. f. 5.*
- * *foliosa*. Capsule nearly sessile, invested with linear-subulate erect 1-nerved leaves. *Eng. Bot. t. 329.*

924. FUNARIA. Capsule obovate: fringe double; outer of 16 oblique wedge-form teeth, cohering at their tips; inner a membrane divided into 16 flat teeth: veil square.

- * *hygrometica*. Leaves ovate, acute, concave, entire, inflexed: capsule swelling, drooping. *Eng. Bot. t. 342*,
- * *Muhlenbergii*. Leaves obovate, awned, concave, ferrulate, spread: capsule obovate, oblique- *Eng. Bot. t. 1497*.
- * *angustata*. Leaves closely sheathing: capsule narrowed at the base. *Smith in Flor. Brit. 3. p. 1339*.

1925. TIMMIA. Capsule ovate: fringe double; outer of 16 broadish teeth; inner an obscurely furrowed jagged membrane, the segments nearly equal and perforated.

- * *polytrichoides*. Leaves linear-lanceolate, ferrate, spread: capsule drooping, on a receptacle: lid convex, depressed in the centre. *Hedw. 1. t. 31*.
- * *austriaca*. Leaves clasping at the base, subulate, ferrate, rough on the keel: capsule nodding: lid umbonate. *Hedw. sp. 1. t. 42. f. 1-7*.

1926. BARTRAMIA. Capsule somewhat globular, becoming grooved: fringe double; outer of 16 tapering teeth; inner a carinate 16-parted membrane, with the segments cloven.

A. Peduncles taller than the stem.

- * *fontana*. Branches fascicled, nearly simple, cylindrical: leaves ovate, pointed, ferrulate at top, appressed. *Eng. Bot. t. 390*.
- * *marchia*. Branches fascicled, nearly simple and cylindrical: leaves lanceolate, pointed, entire, erect-spread. *Hedw. 2. t. 39*.
- * *sphaerocarpa*. Branches fascicled, nearly simple, cylindrical: leaves lance-subulate, ferrulate, appressed. *Hedw. 3. t. 38. A*.
- * *Menziesii*. Stem long, forked, cylindrical: leaves lance-subulate, entire, appressed: peduncles about equalling the stem. *Ann. Bot. 1. t. 11. f. 1*.
- * *Oederiana*. Stem long, somewhat divided: branches scattered: leaves lanceolate, acute, ferrulate, reflected-spread. *Flor. Dau. t. 478*.
- * *pomiformis*. Stem short, nearly simple: leaves linear-lanceolate, ferrulate, spread: capsule erect: lid flat. *Eng. Bot. t. 998*.
- * *crispa*. Stem nearly simple: leaves setaceous, ferrate, spread, curled when dry: capsule inclined: lid obtusely conic. *Eng. Bot. t. 1526*.

Squarrosa. Stem nearly simple: leaves oblong-subulate, every way much spread, entire, almost nerveless: capsule erect.

Ann. Bot. I. t. 11. f. 2.

B. *Peduncles shorter than the leaves.*

* *arcuata*. Branched: leaves lanceolate, serrate, striate, recurve-spread; peduncles lateral, curved: capsule pendulous.

Eng. Bot. t. 1237.

* *Halleriana*. Stem slightly divided: leaves subulate, ferrulate, erect spread: peduncles lateral, nearly erect: lid conic.

Eng. Bot. t. 997.

1927. BRYUM. Capsule ovate-oblong: fringe double; outer of 16 broadish teeth; inner a lacinated membrane: *vell* smooth: *fruit* terminal.

* *conoideum*. Stem divided: leaves oblong-lanceolate, entire, imbricate, spread: capsule pear-shaped, erect: lid subulate, curved.

Eng. Bot. t. 1239.

* *androgynum*. Nearly simple: leaves ovate-lanceolate, serrate at top, imbricate, spread: capsule oblong, erect: lid conic.

Eng. Bot. t. 1238.

* *macrocarpon*. Erect, branching: leaves ovate-lanceolate, concave, revolute at the margin, ending in a branched awn: capsule erect, ovate: lid obtusely conic. *Hedw. 3. t. 10.*

Squarrosulum. Erect, slightly branched: leaves 5-rowed, reflected: capsule oblong, inclined: lid rather conic: acute.

Hedw. sp. t. 44. f. 6-11.

* *inordinatum*. Reclined branched: branches simple, irregular: leaves imbricate, ovate, obtuse: capsule cylindrical, inclined: lid acute.

Dill. t. 31. f. 8.

* *inclinatum*. Erect, simple: leaves ovate-lanceolate, pointed, entire, capsule pendulous pear-shaped: lid pointed. *Swart. t. 5. f. 11.*

* *intermedium*. Erect, slightly branched: leaves ovate-lanceolate, pointed, entire: capsule nodding, long, pear-shaped: lid umbonate. *Weber. t. 2. f. 12.*

* *pallens*. Erect, slightly branched: leaves imbricate, ovate-lanceolate, pointed, concave, nerved: capsule drooping, pear-shaped: lid umbonate. *Swart. t. 4. f. 12.*

* *minus*. Erect, slightly branched: leaves linear-lanceolate, obtuse, appressed when dry: peduncles short: capsule drooping, pear-shaped: lid conic, depressed at top. *Weber. t. 2. f. 13.*

* *palustre*. Stem forked: leaves lanceolate, pointed, entire: capsule oblong, oblique. lid conic. *Eng. Bot. t. 391.*

* *elongatum*. Nearly simple: leaves linear-lanceolate, thicker at the margin, spread: capsule cylindrical, tapering to the base, inclined: lid conic. *Hedw. 1. f. 36.*

- * *dealbatum*. Simple, very short: leaves lanceolate, acute, serrulate at top, spread: capsule pear-shaped, incurved: lid convex.
Dicks. t. 5. f. 3.
- * *cylindricum*. Simple: leaves lance-linear, serrate at top: capsule cylindrical, nearly erect. *Dicks. t. 11. f. 4.*
- * *obtusifolium*. Simple: leaves ovate, obtuse, concave, connivent: capsule obovate, oblique: lid umbonate. *Turn Musc. t. 11. f. 1.*
- * *trichodes*. Slightly branched: leaves linear, obtuse: capsule obovate, inclined, on a very long peduncle: lid convex. *E. Bot. 1517.*
- * *mutans*. Simple: leaves lanceolate, serrate at top, spread: capsule oblong, pendulous: lid convex. *Eng. Bot. t. 1240.*
- * *aureum*. Simple: leaves setaceous, entire, flexuous: capsule pear-shaped, contracted in the middle, pendulous: lid conic, umbonate.
Eng. Bot. t. 389.
- * *carneum*. Nearly simple: leaves lanceolate, acute, entire, rather remote: capsule pendulous: lid convex, umbonate.
Bot. Bot. t. 360.
- * *capillare*. Slightly branched: leaves obovate, obtuse, awned, concave, involute when dry: capsule clavate, pendulous.
Dill. t. 50. f. 67.
- * *caespitium*. Slightly branched: leaves ovate lanceolate, entire, flat, awned: capsule ovate-oblong, pendulous: lid flat, umbonate.
Dill. t. 50. f. 66. A-E.
- * *bicolor*. Slightly branched, very short: leaves ovate-lanceolate, pointed, entire: capsule ovate, pendulous: lid convex, umbonate.
Turn Musc. t. 11. f. 2.
- * *argenteum*. Slightly branched: leaves ovate, concave, awned, imbricate, entire: capsule oblong, pendulous.
Curt. Lond. 3. t. 67. f. 2.
- * *Zierii*. Branched: leaves ovate, concave, pointed, entire, closely imbricate: capsule ovate, tapering at the base, drooping.
Engl. Bot. t. 1621.
- * *julaceum*. Slightly branched: leaves ovate, concave, obtuse, entire, imbricate: capsule clavate, pendulous. *Dill. t. 50. f. 63.*
- * *annotinum*. Slightly branched: leaves lanceolate, pointed, erect, serrulate: capsule oblong, pendulous: lid umbonate. *Dill. t. 50. f. 68.*
- * *compactum*. Nearly simple: leaves linear-lanceolate, carinate, serrate at top: capsule ovate, pendulous. *Dicks. t. 11. f. 11.*
- * *alpinum*. Branched: leaves lanceolate, acute, crowded, erect, entire, capsule oblong, pendulous. *Dill. t. 60. f. 64.*
- * *atenuatum*. Simple, proliferous: leaves stellate, ovate, acute, entire, reticulate: capsule clavate, erect. *Dicks. t. 10. f. 8.*
- * *turbatum*. Branched: leaves ovate-lanceolate, awned, entire: capsule heart-shaped, pendulous: lid conic, umbonate.
Dill. t. 51. f. 74.

- **ventricosum*. Branches ascending: leaves ovate-lanceolate, ferrate at top: capsule inflated, pendulous: lid convex, umbonate.
Dill. t. 51. f. 72.
- **bimum*. Stem divided: leaves oblong-lanceolate, acute, slightly serrate at top: capsule oblong-ovate, pendulous: lid conic.
Eng. Bot. t. 1518.
- **hornum*. Simple: leaves oblong-lanceolate, tooth-ferrate: peduncle curved: capsule ovate, drooping: lid conic, obtuse.
Curt. Lond. 1. t. 71.
- **marginatum*. Simple: leaves ovate-lanceolate, acute, ferrate, thicker at the margin: capsule ovate, pendulous: lid conic, pointed.
Eng. Bot. t. 1473.
- **crudum*. Simple: leaves lanceolate, acute, somewhat 2 rowed, upper-ones ferrulate: capsule oblong, drooping: lid convex.
Dill. t. 51. f. 70.
- **cuspidatum*. Simple: leaves ovate, awned, ferrate: capsule ovate, drooping: lid hemispherical. *Eng. Bot. t. 1474.*
- **punctatum*. Nearly simple: leaves obovate obtuse, entire, remote: capsule ovate, drooping: lid cuspidate. *Eng. Bot. t. 1183.*
- **rostratum*. Simple: leaves obovate-spatulate, very obtuse, minutely ferrate: capsule ovate, pendulous: lid subulate. *Eng. Bot. t. 1475.*
- **interruptum*. Branched, interruptedly leafy: leaves linear-lanceolate, pointed, ferrulate: capsule pear-shaped, nearly erect.
Dicks. t. 11. f. 6.
- **nigricans*. Nearly simple: leaves linear-lanceolate, stiff, ferrate at top: capsule turbinate, pendulous. *Dicks. t. 11. f. 10.*
- **inclinans*. Branched: leaves setaceous, broader at the base, entire, curled when dry, capsule ovate, inclined, on a minute receptacle.
Dicks. t. 11. f. 9.
- **cubitale*. Somewhat branched, ascending: leaves arrow-shaped, entire, margined: peduncle abruptly bent: capsule clavate, pendulous. *Dicks. t. 5. f. 2.*
- **stellare*. Branched: leaves ovate, pointed, orbiculo-reticulate; upper-ones ferrate, stellate: capsule oblong, pendulous.
Dill. t. 52. f. 78.
- **roseum*. Simple, proliferous: leaves ovate, pointed, clustered, stellate, ferrate at top: capsule oblong, drooping: lid convex.
Dill. t. 52. f. 77.
- **ligulatum*. Branched, proliferous: leaves oblong, undulate, ferrate: peduncles clustered: capsule ovate, drooping: lid convex.
Dill. t. 52. f. 76.
- **dendroides*. Erect: branches whorled: leaves lance-subulate, ferrate: capsule taper, nodding: lid conic. *Linn. Musc. t. 4. f. 2.*
- **dichotomum*. Erect, branched: leaves imbricate, ovate-lanceolate, pointed; capsule ovate, drooping. *Hedw. sp. t. 42. f. 8-12.*

heterostichum. Erect, divided: leaves pointing one way, 2-rowed, oblong, obtuse, ferrate at top: capsule oblong, inclined: lid umbonate, Hedw. sp. t. 46. f. 1-9. Arrhenopt.

1928. HYPNUM. Capsule ovate-oblong: fringe double; outer of 16 broadish teeth; inner a variously divided membrane: veil smooth: fruit lateral.

A. Capsules erect: shoots cylindrical.

capillare. Creeping, filiform: branches erect: leaves ovate lanceolate, concave: capsule ovate: lid oblique. Hedw. 4. t. 10.

Pacificum. Pendent, flexuous: branches subulate, spread 2-ways: leaves spatulate-lanceolate, lax: capsule ovate: lid oblique, pointed. Hedw. 4. t. 43.

canariense. Ascending: branches vague, a little incurved: leaves ovate-lanceolate, somewhat inclined to one side: capsule urn-shaped. Dill. 39. 41.

micropodon. Ascending, branched: leaves linear-lanceolate, imbricate: capsule ovate: lid pointed. Dill. 35. 18.

mutabile. Creeping: branches erect, crowded: leaves imbricate, lanceolate, with long points: capsule cylindrical: lid pointed. Bridel. t. 6. f. 1.

**subtile*. Creeping, with numerous filiform branches: leaves lanceolate, pointed, nerveless, rather remote: lid conic. Hedw. 4. t. 9.

**pulchellum*. Erect, with simple somewhat falcate branches: leaves ovate lanceolate, pointed, nerveless, a little inclining to one side: lid conic. Dicks. t. 5. f. 6.

**polyanthos*. Creeping, with numerous scattered branches: leaves lanceolate, pointed, nerveless, imbricate, erect: lid mucronate. Dill. t. 42. f. 62.

**attenuatum*. Branches numerous, incurved: leaves ovate-lanceolate, nerved, imbricate: lid conic. Dill. t. 42. f. 66.

**cylindricum*. Branches incurved, cylindrical, acute: leaves ovate, acute, nerveless, closely imbricate. Dill. t. 41. f. 57.

**sericeum*. Creeping, with crowded ascending branches: leaves linear-lanceolate, pointed, erect, 3-nerved: lid conic. Eng. Bot. t. 1445.

**dendroides*. Simple at bottom, erect: branches clustered, terminal: leaves ovate-oblong, serrulate, 1-nerved: lid subulate. Dill. 40. 48.

**curvatum*. Creeping, with numerous incurved branches: leaves oblong-ovate, concave, entire, 1-nerved: lid subulate. Dill. tab. 41. f. 50.

gracile. Creeping, with simple incurved branches: leaves oblong-ovate: capsule nearly erect: lid conic. Dill. t. 41. f. 55.

**myosuroides*. Creeping, with fascicled incurved branches: leaves lanceolate, pointed, serrulate, 1-nerved: capsule at length drooping: lid conic. Dill. t. 41. f. 51.

marilandicum. Erect-branched: leaves ovate, acute, closely imbricate: lid conic. *Dill. t. 41. f. 58.*

**nigroviride*. Procumbent, somewhat pinnate: leaves ovate, pointed, concave, nerveless, inclining somewhat one way: lid conic, acute. *Dill. t. 41. f. 53.*

**medium*. Creeping, with procumbent branches: leaves ovate, acute, concave, 1-nerved, erect: capsule cylindrical: lid conic. *Eng. Bot. t. 1274.*

**inundatum*. Creeping, with erect branches: leaves ovate, concave, obscurely 1-nerved, leaning somewhat one way: lid conic. *Dill. t. 37. f. 27. B*

**Donnianum*. Tufted, erect, slightly branched, bearing fruit from the base: leaves ovate, acute, nerveless, imbricate: capsule cylindrical. *Eng. Bot. t. 1446.*

B. Capsules erect: shoots flat: leaves 2-rowed.

**complanatum*. Creeping, pinnate: leaves obtuse with a point, compressed, nerveless: lid oblique, beaked. *Dill. t. 34. f. 7.*

**trichomanoides*. Procumbent, pinnate, all the branches obtuse: leaves scimitar-shaped, obtuse, without point: lid oblique, subulate. *Dill. t. 34. f. 8.*

C. Capsule drooping: leaves 2-rowed.

invovens. Creeping: branches simple, erect: leaves somewhat 2-rowed, ovate-lanceolate; involute when dry: capsule cylindrical, drooping.

**denticulatum*. Leaves ovate, pointed, nerveless, entire, approximate: capsule oblong, inclined: lid conic. *Eng. Bot. t. 1260.*

**crenulatum*. Creeping, horizontally pinnate: leaves ovate-lanceolate, pointed, 1-nerved crenulate: capsule oblong: lid conic. *Eng. Bot. t. 1261.*

**Swartzii*. Procumbent, much branched: leaves remote, ovate, serrulate, 1-nerved: lid subulate, incurved. *Turn. Musc. t. 14.*

**ferrulatum*. Creeping, much branched: leaves ovate-lanceolate, pointed, serrate, 1-nerved at the bottom, crowded, spread: lid subulate. *Engl. Bot. t. 1262.*

**late-virens*. Pinnately branched: leaves obovate oblong, acute, serrate, 1-nerved: lid flattish. *Turn. Musc. t. 13.*

Teesdalii. Creeping, filiform, branched: leaves linear-lanceolate, pointed, entire, rather remote: lid subulate, curved. *E. Bot. 202.*

**riparium*. Branched, spread: leaves ovate, pointed, entire, 1-nerved, rather remote: lid conic. *Hedw. 4. t. 3.*

**ruscifolium*. Branched: leaves ovate, acute, serrulate, 1-nerved, imbricate: lid subulate, recurved. *Dill. t. 38. f. 41.*

**undulatum*. Procumbent, branched: leaves lanceolate, undulate, nerveless, imbricate: capsule ovate-oblong, grooved: lid subulate.

Eng. Bot. tab. 1181. O 5. 2

- **lucens*. Somewhat erect and branched: leaves ovate, obtuse, flat, nerveless, reticulate: capsule ovate: lid conic. *Dill. t. 34. f. 10.*
- fissidentoides*. Erect, simple: leaves alternate, ovate-lanceolate, pointed: capsule ovate, a little drooping. *Bridel. t. 6. f. 5.*
- extricatum*. Decumbent, pinnate: leaves pointing one way, falcate, nerved, denticulate: lid conic. *Roth.*
- tomentosum*. Creeping, vaguely-branched: leaves ovate-lanceolate, awned, serrulate: lid oblique. *Hedw. 4. t. 19.*
- D. Capsule drooping: leaves imbricate every way.
- **splendens*. Doubly pinnate: leaves lance ovate, pointed, concave, nerveless, appressed: capsule ovate: lid curved. *Eng. Bot. t. 1424.*
- **proliferum*. Triply pinnate: leaves heart ovate, acute, 1-nerved, appressed: capsule oblong: lid curved. *Curt. Lond. 1. t. 72.*
- **delicatulum*. Procumbent, doubly pinnate: leaves heart-lanceolate, pointed, 3 nerved: lid subulate: teeth of the inner-fringe imperforate. *Hedw. 4. t. 33.*
- **recognitum*. Doubly pinnate: leaves hearted, acute, 3-nerved, appressed, serrulate, opaque: lid conic, acute: teeth of the inner-fringe perforated. *Eng. Bot. t. 1495.*
- **umbratum*. Doubly pinnate: leaves heart ovate, acute, nerveless, serrulate, spread: lid pointed. *Hedw. sp. t. 67. f. 10—12.*
- **Stokessii*. Doubly pinnate: leaves hearted, pointed, 1-nerved, serrulate, erect spread: peduncles tubercled: capsule ovate. *Turn. Musc. t. 15. f. 2.*
- **praelongum*. Creeping, pinnate: leaves ovate-lanceolate, pointed, 1 nerved, serrate, spread: capsule ovate: lid subulate. *Dill. tab. 35. f. 15. A. C.*
- **protensum*. Pinnate, compressed, villous: leaves hearted, pointed, entire, 3-striate, appressed: lid conic. *Dill. t. 35. f. 17.*
- **abietinum*. Pinnate, compressed, villous: leaves hearted, pointed entire, 3-striate, appressed: lid conic. *Dill. t. 35. f. 17.*
- **alopecurum*. Erect, much branched at top: leaves ovate, concave, 1-nerved, serrate: capsule ovate: lid subulate. *Eng. Bot. t. 1182.*
- **stramineum*. Erect, filiform, nearly simple: leaves oblong-lanceolate, concave, entire, nerveless: lid convex, umbonate. *Dicks. t. 1. f. 9.*
- **adnatum*. Creeping, with nearly simple branches: leaves oblong-lanceolate, concave, entire, nerveless: lid conic. *Hedw. sp. t. 64. f. 5—10.*
- **confertum*. Creeping, with erect simple branches: leaves ovate, pointed, concave, serrate, spread, 1-nerved at bottom: lid subulate, curved. *Dicks. t. 11. f. 14.*
- **murale*. Creeping, with clavate branches: leaves ovate, pointed, entire, closely imbricate, 1-nerved at bottom: lid subulate, curved. *Eng. Bot. t. 1038.*
- **velutinum*. Creeping: leaves ovate, pointed, serrate, 1-nerved at bottom, erect: capsule ovate: lid conic. *Dill. t. 42. f. 61.*

- **intricatum*. Creeping: leaves linear-lanceolate, pointed, ferrate, 1-nerved at bottom: capsule ovate: lid conic. *Dicks. t. 11. f. 13.*
- **serpens*. Creeping: leaves ovate-lanceolate, pointed, entire, 1-nerved at bottom: capsule cylindrical: lid umbonate.
Eng. Bot. t. 1037.
- **atro-virens*. Procumbent, much branched: leaves ovate, concave, 1-nerved, entire: capsule obovate: lid subulate.
Dill. tab. 43. f. 67.
- **filamentosum*. Branches numerous, interwoven: leaves ovate, entire, 1-nerved, appressed, capsule ovate: lid conic.
Dill. t. 36. f. 18.
- **tenellum*. Creeping, much branched: leaves subulate, entire, 1-nerved: capsule cylindrical: lid subulate. *Dicks. t. 11. f. 12.*
- **albicans*. Branched, ascending: leaves ovate-lanceolate, entire, pointed, 3-nerved: capsule ovate; lid pointed. *Eng. Bot. t. 1300.*
- **plumosum*. Creeping, much branched: leaves ovate-lanceolate, pointed, entire, 1-nerved at bottom; lid conic.
Turn. Musc. t. 15. f. 1.
- **implexum*. Creeping, with interwoven branches: leaves lanceolate, pointed, ferrulate, 1-nerved: capsule turbinate: lid conic.
Turn. Musc. t. 16.
- **lutescens*. Procumbent, much branched: leaves lanceolate, pointed, entire, 3-nerved: capsule cylindrical: lid conic, pointed.
Eng. Bot. t. 1301.
- **molle*. Much branched, filiform, pendulous: leaves ovate, acute, entire, concave, nerveless: capsule ovate. *Dicks. t. 5. f. 8.*
- **purum*. Pinnate, with recurved branches: leaves ovate-elliptic, mucronate, concave, 1-nerved at bottom: lid conic, pointed.
Curt. Lond. 3. t. 65.
- **illecebrum*. With scattered obtuse branches: leaves ovate-elliptic, concave, obtuse with a point, obscurely 1-nerved.
Dill. t. 40. f. 46.
- **Schreberi*. Pinnate, somewhat compressed: leaves oblong-ovate, concave, nerveless, rather remote: lid conic, straight.
Dill. tab. 40. f. 47.
- **nitens*. Erect, with short branches: leaves lanceolate, pointed; entire, straight, erect: capsule oblong: lid conic. *Dill. t. 39. f. 37.*
- **rufescens*. Erect, with long branches: leaves linear lanceolate, pointed, entire, striate, spread: capsule ovate, oblique.
Dicks. t. 8. f. 4.
- **cuspidatum*. Pinnate, cuspidate: leaves oblong-ovate, cuspidate, entire, nerveless: lid conic, acute. *Eng. Bot. t. 1425.*
- **piliferum*. Much branched: leaves ovate, concave, entire, rather obtuse, awned, 1-nerved below: lid subulate, curved.
Eng. Bot. t. 1516.

**rutabulum*. Much branched: leaves ovate-deltoid, pointed, ferrulate, 1-nerved below: lid conic. *Dill. t. 38. f. 29.*

F. *Capsules drooping: leaves spreading every way.*

spiniforme. Erect, simple: leaves linear subulate, ferrulate, ending in a bristle: capsule ovate: lid oblique. *Hedw. 3. t. 25.*

squarrosulum. Branched, irregularly pinnate, stellular at top: leaves linear-subulate, a little reflected: capsule long, curved.

Bridel. t. 4. f. 2.

**cordifolium*. Erect, with short branches: leaves hearted, rather obtuse, entire, 1-nerved, a little remote: lid conic. *Hedw. 4. t. 37.*

**suittans*. Irregularly branched: leaves oblong lanceolate, pointed, entire, rather remote, 1-nerved at bottom: lid convex, umbonate.

Dill. t. 38. f. 33.

**striatum*. Much branched: leaves ovate-deltoid, acute, nearly entire, striate below: lid subulate, curved. *Dill. t. 38. f. 30.*

**Thuringicum*. Branches somewhat fascicled: leaves ovate lanceolate, pointed, ferrulate, 1-nerved below: capsule ovate-oblong: lid subulate. *Bridel. 3. t. 3. f. 2.*

**flagellare*. Branches fascicled at top: leaves deltoid, pointed, ferrulate, smooth, nerveless. *Dicks fasc. 2. 12.*

**stellatum*. Erect, branched: leaves ovate-lanceolate, pointed, nerveless, entire: capsule cylindrical: lid conic. *Eng. Bot. t. 1302.*

**squarrosulum*. Irregularly pinnate: leaves heart-ovate, pointed, entire, nerveless, incurved, carinate: lid conic. *Dill. t. 39. f. 38.*

**laevem*. Procumbent, somewhat pinnate: leaves ovate-subulate, striate, recurved, a little pointing one way: lid convex, umbonate. *Dill. t. 39. f. 40.*

**triquetrum*. Ascending, somewhat pinnate: leaves 3-sided, pointed, ferrulate, striate, recurved: lid conic, rather obtuse.

Dill. t. 38. f. 28.

G: *Capsules drooping: leaves falcate, pointing one way.*

**rugosum*. Procumbent, with incurved branches: leaves lanceolate, pointed, entire, grooved, 1-nerved: lid conic. *Dill. t. 37. f. 24.*

**scorpioides*. Procumbent: branches thicker in the middle, hooked at top: leaves ovate, acute, concave, appressed, nerveless: lid conic, pointed. *Eng. Bot. t. 1039.*

**revolvens*. Nearly erect, somewhat pinnate: leaves lance-subulate, tortile, 1-nerved at bottom: lid convex, pointed.

Swartz Musc. t. 7. f. 14.

**aduncum*. Erect, pinnate: leaves ovate, pointed, curled, concave, 1-nerved: lid convex, pointed. *Dill. t. 37. f. 26.*

**uncinatum*. Procumbent, somewhat pinnate: leaves linear-subulate, rather remote, 1-nerved, striate: lid conic, pointed. *Hedw. 4. t. 25.*

- **palustre*. Creeping, with erect branches: leaves lanceolate, nerveless, spreading and one-rowed, concave: lid conic, pointed.
Dill. t. 37. f. 27. A.
- **fluviatile*. Creeping, branched: leaves ovate-oblong, pointed, 1-nerved: capsule turbinate: lid convex, pointed. *E. Bot. t. 1303.*
- **alpinum*. Creeping, much branched: leaves ovate-lanceolate, pointed, 1-nerved at bottom: lid conic, pointed. *Eng. Bot. t. 1496.*
- **compressiforme*. Prostrate, pinnate: leaves ovate-subulate, concave nerveless, closely imbricate: lid cuspidate. *Dill. t. 37. f. 23.*
- **dubium*. Prostrate, pinnate: leaves ovate, pointed, 1-nerved, slightly striate: lid conic. *Dill. t. 36 f. 21*
- **commutatum*. Procumbent, pinnate: leaves ovate-subulate, tortile, 1-nerved at bottom: capsule oblong: lid conic.
Dill. tab. 36 f. 19. B—D.
- **filicinum*. Procumbent, pinnate: leaves ovate-subulate, 1-nerved; capsule oblong: lid convex, pointed. *Dill. t. 36 f. 19. A. E F*
- **molluscum*. Procumbent, closely pinnate: leaves ovate-subulate, closely imbricate, nerveless, capsule ovate: lid conic.
Eng. Bot. t. 1327.

1929. FONTINALIS. Capsule oblong, lateral, invested with an imbricate scaly sheath: *fringe* double; outer of 16 broadish teeth; inner a conic reticulated membrane.

- **antepyrretica*. Stem much branched, 3 sided: leaves lanceolate, acute, carinate, nerveless, 3-rowed: leaves of the sheath obtuse: lid subulate. *Eng. Bot. t. 359.*
- **squamosa*. Stem 3-sided, much branched: leaves lanceolate, pointed, flat, nerveless: leaves of the sheath obtuse: lid obtuse.
Dill. t. 33. f. 3.
- **capillacea*. Leaves linear-subulate, spread: sheath and peduncles long, filiform; leaves acute, longer than the capsule.
Dill. tab. 33. f. 5.
- **falcata*. Slightly branched: leaves imbricate 3 ways, oblong-lanceolate, carinate; those of the sheath cloven at top and without nerve: capsule erect, oblong-ovate. *Hedw. 3. t. 24*

ORDER III. HEPATICÆ.

1930. MARCHANTIA. Male. Calyx salver-shaped, with numerous antheræ imbedded in its disk.

Fem. Calyx peduncled, peltate, flowering underneath: capsules bursting at their summits: seeds attached to elastic fibres.

- **polymorpha*. Leaves obtusely lobed: calyx 10-cleft. *B. Bot. 210.*
- umbellata*. Calyx many-cleft: peduncle square. *Dill. 76. 6.*
- triloba*. Calyx hemispherical, 3-lobed. *Fior. Baz.*

hirsuta. Calyx hemispherical, 8-cleft, hairy. *Swartz. prodr.*

**hemisphærica*. Calyx hemispherical; 5-cleft: stalks naked at the base. *Eng. Bot. t. 503.*

chænopoda. Calyx halved, palmate, 4-cleft. *Dill. 77. 8.*

quadrata. Leaves forked: calyx square, 4-cleft, 4-celled underneath. *Roth. Germ.*

**cruciata*. Calyx 4 or 5 parted, with tubular segments. *Dill. 75. 5.*

**conica*. Calyx conic, umbonate: males in sessile warts. *E Bot. 505.*

trilocularis. Calyx hemispherical, entire, 3-celled beneath: leaves undulate. *Roth. Germ.*

tenella. Calyx hemispherical, umbonate; the margin radiate with lamellæ. *Dill. t. 75. f. 4.*

**androgyna*. Calyx hemispherical, entire, leaves linear, forked. *Dill. t. 75. f. 3.*

1931. JUNGERMANNIA. Male. *Flowers sessile.*

Fem. Capsule peduncled, naked, arising from a sheath, 4-valved: seeds attached to elastic filaments.

A. *Caulescent: branches compound, pinnate.*

**asplenoides*. Leaves ovate, ciliate. *Dill. t. 69, 5. 6.*

**Porella*. Branches flowering in the middle: flowers nearly sessile: sheaths inflated: leaves obovate. *Linn. Tr. 3. t. 20. f. 1.*

adiantoides. Erect, slightly divided: leaves ovate, oblique, ciliate: fruit terminal. *Swartz. prodr.*

cristata. Creeping, with erect branches: leaves lanceolate, acute, spread, incumbent, serrate on the upper-margin, lobed underneath, connivent, crested. *Swartz. prodr.*

prostrata. Filiform, nearly simple: creeping, prostrate: leaves alternate, ovate, entire. *Swartz. prodr.*

**sphagni*. Creeping; leaves roundish, entire, imbricate, pointing one way: fruit lateral. *Dicks. t. 1. f. 10.*

**angulosa*. Leaves broadish, truncate, obtusely 3 toothed: capsule campanulate, lateral. *Dill. t. 71. f. 22. C. D.*

javanica. Much branched: leaves ovate, imbricate, convex. *Linn. tab. 1. f. 2.*

**viticulosa*. Leaves flat, naked, linear. *Dill. t. 66. f. 7.*

**polyanthos*. Leaves entire, imbricate, convex. *Dill. t. 70. f. 9.*

**scalaris*. Leaves entire, ovate, 2-rowed: extremity of the stem bearing the male-flowers.

**lanceolata*. Fronds lanceolate: leaves entire: fruit terminal. *Eng. Bot. t. 605.*

**perfoliata*. Crowded, erect, undivided: leaves perfoliate, incumbent, one-rowed, ovate, entire. *Swartz. prodr.*

**bidentata*. Leaves ovate, 2-toothed. *Eng. Bot. t. 606.*

**divaricata*. Simple, filiform, flowering at the end: leaves alternate, deeply cloven, with pointed divaricate lobes. *Eng. Bot. t. 719.*

- **connivens*. Creeping, branched : leaves ovate, a little concave, cloven, with acute connivent lobes : flowers terminal.
Dicks. t. 11. f. 15.
- bicornis*. Leaves alternate, with 2 polliniferous points.
Flor. Dan t. 888
- globulifera*. Leaves 2-toothed; the teeth globuliferous at their tips.
Roth. Germ.
- **emarginata*. Erect: leaves roundish, obtusely emarginate, entire, spread, without auricles: flowers terminal. *Eng. Bot. t. 1022.*
- crenulata*. Spreading: leaves 2-rowed, imbricate, orbicular, entire, with a thick crenulate border, without stipules: flowers terminal.
Engl. Bot. t. 1463.
- setiformis*. Simple, round, filiform, erect: leaves in 4 broad-subulate channelled equal segments, without stipules. *Hannov. Mag. 1784.*
- **bicuspidata*. Leaves roundish, emarginate, 2-rowed: flowers terminal. *Eng. Bot. t. 281.*
- **sphærocephala*. Leaves roundish, emarginate, 2-rowed: peduncle lateral or terminal, supporting a barren globular flower.
Dill. tab. 31. f. 6.
- connata*. Leaves opposite, incumbent, retuse and slightly emarginate at top, united and 2-toothed behind : fruit terminal; sheath denticulate. *Swartz. prodr.*
- quadridentata*. Prostrate, vaguely branched, flowering at top: leaves squared, about 4-toothed. *Schreb. Berl.*
- **quinquedentata*. Branched, flowering at top: leaves 5-toothed.
Dill. t. 71. 23.
- tenera*. Creeping, crowded: leaves alternate, distant, roundish, entire: stipules minute, 2-toothed. *Swart. prodr.*
- **aquatica*. Leaves excavated underneath when dry. *Dill. 698.*
- minuta*. Erect, branched, auricled underneath : leaves roundish,
Dill. 69. 21.
- **ventricosa*. Leaves bifid : sheath sphæroid : flowers lateral.
Dill. t. 70. f. 14.
- **spinulosa*. Erect, branched : leaves obovate, tooth-spinous.
Dill. t. 70. f. 15.
- **pauciflora*. Creeping, much branched, filiform, flowering in the middle : leaves incurved, 2-parted: sheaths conic, remote.
Dill. t. 5. f. 8.
- B. *Caulescent: fronds pinnate or nearly so.*
- pallens*. Erect, branched: leaves incumbent, roundish, entire, half hearted at the base: sheaths 1-leaved, retuse, funnel-form *Swartz.*
- simplex*. Filiform, creeping: fronds erect, simple: leaves ovate, distant, ferrate-ciliate: fruit terminal. *Swartz.*
- **undulata*. Doubly pinnate above : leaves roundish entire, undulate: fruit terminal. *Dill. t. 71. f. 17.*

- * *nemorosa*. Doubly pinnate above; leaves ciliate : fruit terminal.
Eng. Bot. t. 607.
- * *resupinata*. Bipinnate above : leaves crenate, imbricate, rounded : fruit terminal. *Dill. t. 71. f. 19.*
- ferrulata*. Crowded, erect, nearly simple, obtuse, doubly pinnate above: leaves ovate, concave, bifid, serrate: fruit terminal; sheath subulate. *Swartz. prodr.*
- juniperina*. Erect, nearly simple, rigid, doubly pinnate above : leaves lanceolate, falcate, bifid, 1-rowed : fruit terminal. *Swart.*
- * *albicans*. Bipinnate above : leaves linear, recurved : fruit terminal. *Dill. t. 71. f. 20.*
- capillaris*. Creeping, branched, capillary, bipinnate above : leaves somewhat imbricate, all 3-parted. *Swart.*
- cupressina*. Procumbent, crowded, bipinnate above; leaves imbricate, convex, 4-cleft. *Swart. prodr.*
- * *tribola*. Doubly pinnate underneath : leaves square, obscurely 3-lobed. *Dill. t. 71. f. 22. 23.*
- * *reptans*. Doubly pinnate underneath, creeping : leaves 4-toothed : fruit lateral. *Eng. Bot. t. 608.*
- * *multiflora*. Creeping, branched : leaves alternate, in pairs, setaceous, equal : fruit radical. *Dill. t. 69. 4.*
- * *purpurea*. Nearly erect and cylindrical : leaves appendaged underneath, roundish, concave ; the uppermost serrate : fruit terminal, *Eng. Bot. t. 1023.*
- * *ovata*. Creeping, branched : leaves ovate, alternate, appendaged underneath : sheaths jagged : fruit terminal and lateral. *Dicks. t. 8. f. 6.*
- barbata*. Shoots long, flowering in the middle : leaves crenate on the fore-part : stem villous underneath. *Schreb. Lips.*

C. *Caulescent, fronds imbricate.*

- * *complanata*. Creeping : leaves appendaged underneath, doubly imbricate : branches equal. *Curt. Lond. t. 271.*
- transversalis*. Fronds transversal, creeping, doubly imbricate : leaves roundish, entire. *Swart. prodr.*
- flava*. Creeping, branched, doubly imbricate : leaves roundish : lower-ones minute, bifid : sheath 1-leaved, retuse. *Swart.*
- diffusa*. Much branched ; fronds forked, erect, doubly imbricate : leaves ovate, convex ; lower-ones roundish, denticulate. *Swart.*
- scelonifera*. Creeping, filiform : fronds erect, crowded, sub-divided, doubly imbricate : leaves lanceolate, 3-toothed, 1-rowed ; lower-ones minute, roundish. *Swart.*
- brachiata*. Erect, forked, doubly imbricate : leaves ovate, flat ; lower-ones roundish, convex. *Swart.*
- * *dilatata*. Creeping : leaves appendaged underneath, doubly imbricate : branches broader at top. *Dill. 72. 27.*

- * *tamariscifolia*. Leaves doubly imbricate, roundish, appendaged underneath : stipules ovate, emarginate : fruit terminal.
Eng. Bot. t. 1081.
- * *excisa*. Creeping, branched : leaves imbricate, concave, emarginate : fruit terminal. *Dicks. t. 8. f. 7.*
- atrata*. Much branched, pendulous, capillary, doubly imbricate : leaves ovate retuse ; lower-ones minute, hearted, cloven. *Swart.*
- filiformis*. Erect, filiform, nearly simple, doubly imbricate : leaves roundish, entire ; lower-ones minute. *Swart.*
- * *platyphylla*. Procumbent, imbricate underneath : leaves heart-shaped, obtuse : sheaths toothed. *Eng. Bot. t. 798.*
- filicina*. Erect, branched, pinnate, linear, doubly imbricate : leaves ovate, acute, serrulate, lower-ones slightly emarginate, toothed. *Swart.*
- * *tomentella*. Creeping, downy above : leaves entire, downy.
Dill. 73. 35
- * *ciliaris*. Creeping, doubly imbricate: leaves appendaged underneath, ciliate *Dill. t. 69. f. 3.*
- vaginata*. Creeping: leaves alternate, wedge-form, retuse, complicated, clasping, *Linn Musc. t. 1. f. 5.*
- tomentosa*. Erect, crowded, doubly imbricate: leaves laciniate, downy, ciliate: fruit terminal. *Swartz.*
- * *varia* Nearly erect, 2-rowed, imbricate : leaves 2-parted.
Dill. t. 73 f. 36.
- * *adunca*. Filiform, recurved at the summits: leaves somewhat recurved, 1-rowed: fruit terminal. *Dicks. t. 8. f. 8.*
- bisaria*. Erect, nearly simple, crowded, imbricate 2-ways: leaves ovate, acute, denticulate: fruit terminal. *Swartz.*
- pygmæa*. Somewhat branched, creeping: leaves orbicular-concave, somewhat imbricate, alternately pinnate. *Schreb. Nat. 8.*
- * *pufilla*. Shoots very short, flowering at top : leaves imbricate, crenate on the fore-part. *Dill. t. 74. 46.*
- * *julacea*. Cylindrical, erect, every where imbricate: leaves ovate, acute, entire: sheath toothed. *Eng. Bot. t. 1024.*
- * *concinata*. Cylindrical, somewhat compressed, closely imbricate : leaves concave: sheath entire. *Lightf.*
- * *tricophylla*. Cylindrical: leaves capillary, equal. *Dill. 73. 37.*
- fertuarioides*. Creeping : leaves capillary, equal, jointed: flowers lateral and terminal. *Linn. Musc. t. 1. f. 6.*
- * *curvifolia*. Creeping, branched, cylindrical: leaves pointed: cloven; the tips incurved. *Eng. Bot. t. 1304.*
- * *pumila*. Simple, very short: leaves imbricate, circular, nearly opposite: fruit terminal. *Withering.*
- * *cinerea*. Creeping, bipinnate above, flowering in the middle: leaves rounded: sheath cylindrical. *Dill. t, 72. 28.*

D. *Stemless.*

**epiphylla*. Leaflet on the frond. *Eng. Bot. t. 771.*

**sinuata*. Frond flat bipinnatifid, sinuate; the extremities unequally 2-lobed: peduncles shorter than the frond. *Eng. Bot. t. 1476.*

**pinguis*. Frond oblong, sinuate, slippery. *Eng. Bot. t. 185.*

**fuscoidea*. Erect, supradecomposed: leaves and leaflets opposite, the latter linear. *Swartz.*

**multifida*. Frond bipinnatifid, with obtuse segments. *E. Bot. t. 186*

**macrorrhiza*. Bipinnatifid, with acute segments. *Dill. 74. 44.*

**bipinnata*. Procumbent, branched, bipinnate; divisions and subdivisions linear, acute. *Swartz.*

**furcata*. Frond linear, branched; the extremities forked and rather obtuse. *Dill. t. 74. f. 45.*

**dichotoma*. Linear, forked, nearly erect. *Swartz.*

**linearis*. Frond creeping, linear, forked, divaricate. *Swart.*

**polyphylla*. Fronds crowded, somewhat creeping, lacinate and palmate: fruit radical. *Swartz.*

1932. TARGIONIA. *Calyx* of 2 concave valves: seeds numerous, collected into a globe.

**pyrophylla*. Targionia. *Eng. Bot. t. 287.*

1933. SHÆROCARPUS. *Calyx* inflated, perforated at top: seeds very numerous, collected into a globe.

**terrestris*. Sphærocarpus. *Eng. Bot. t. 299.*

1934. ANTHOCEROS. Male. *Calyx* 6-parted or entire: antheræ 3-8, obovate, in the bottom of the calyx.

Fem. *Calyx* sessile, cylindrical, entire: capsule subulate, long, 2-valved.

**lavis*. Frond flat, crenate. *Eng. Bot. t. 1538.*

**crispus*. Frond sinuate and jagged, undulate, curled on the margin, not dotted. *Swart. prodr.*

**punctatus*. Frond sinuate, lobed, obtuse. *Eng. Bot. t. 1537.*

**multifidus*. Fronds bipinnatifid, with linear, acute segments. *Dill. tab. 88. f. 4.*

1935. BLASIA. Male, solitary, imbedded in the frond.

Fem, *Calyx*.c: capsule imbedded in the frond, oblique, 1-celled, with a tubular mouth: seeds numerous.

**pusilla*. Blasia. *Eng. Bot. t. 1328.*

1936. RICCIA. *Calyx* o: corol o: antheræ cylindrical, sessile on the germ, perforated by the style: capsule globular, crowned with the withered antheræ: seeds hemispherical, pedicelled.

**major*. Fronds lobed, inversely heart-shaped, obtuse, flat, rough. *Dill. t. 78. f. 15.*

- pyramidata* Fronds oblong, undivided, triangularly thickened underneath at the tip: fruit pyramidal *Dill. t. 78. f. 16.*
- crystallina*. Fronds lobed, obtuse, emarginate, pitted. *Dill. t. 78. 12.*
- minima*. Fronds linear, about 3-parted, forked, channelled, acute. *Dill. t. 78. f. 11.*
- *glauca*. Fronds many-parted, forked, cloven at top, grooved, obtuse. *Dill. t. 78. f. 10.*
- ciliaris*. Fronds 2-parted, forked, cloven and concave at the tips, lanceolate, rather obtuse, roots somewhat marginal, ciliate. *Schmid. t. 45. f. 4.*
- *fluitans*. Fronds repeatedly forked, linear, convex, smooth reticulate, obtuse and cloven at the tips *Eng. Bot. t. 251.*
- venosa*. Fronds forked, flat, smooth, reticulate with veins, 2-parted retuse and divaricate at the tips *Hedw. t. 29.*
- *natans*. Frond inversely heart-shaped, flat, clothed with long compressed radicles underneath. *Eng. Bot. t. 252.*
- *fruticulosa* Fronds compressed, with erect forked subulate branches. *Flor. Dan. 898. f. 3.*
- arachnoides*. Capillary, interwoven. *Fl. Dan. t. 898. f. 2.*

ORDER IV. ALGÆ.

1937. LEPRARIA. *Fructification* in a powdery or floccular substance, mostly clothing a thin crustaceous frond.

A. *Continued, without visible frond.* Pulveraria.

chlorina. Thick, effuse, deep yellow. *Ach. t. 1. f. 1.*

Latebrarum. Thick, effuse, grey. *Achar.*

B. *Continued: frond crustaceous.* Lepraria.

**alba*. Crust and fructification pure white. *Eng. Bot. t. 1349.*

incana. Crust thin, somewhat membranaceous, grey-glaucous: fructification hoary. *Achar.*

lepiphæma. Thin, milk-white: fructification very minute, mealy, palish-white. *Ach. t. 1. f. 2.*

**lutescens*. Leprous, a little cracked, rugged, yellowish: fructification globular, of the same colour. *Eng. Bot. t. 1529.*

**flava*. Thin, mealy, bright golden yellow. *E. Bot. t. 1350.*

Bassiae. Thin, saffron: fructification, globular, scattered, orange-colour. *Hoffm. t. 1. f. 5.*

rubens. Crust and fructification pale red. *Hoffm. t. 1. 5.*

2. *putredinis*. Very thin, purplish. *Wigg.*

3. *variegata*. Variegated white and flesh-colour. *Hag. t. 1. f. 1.*

botryoides. Crust and fruit deep green. *Dill. t. 1. f. 5.*

cobaltiginea. Very broad, rosy. *Jacq. t. 12. f. 1.*

antiquitatis? Very thin, deep black. *Hoffm. t. 3. f. 5?*

Segetria? Thin, grey. *Byssus saxatilis*. *Linn.*

Iolithus? Thin, mealy, saffron-red, becoming greyish. *Fl. Dan.* 839.
2. *odoratus*. Crust and fructification carmine. *Wigg.*

C. *In floccular rigid masses: frond crustaceous.* *Spiloma.*

**melanopa*. Thin, effuse, blackish: masses of the fructification flat, broader, deformed, somewhat confluent, deep black.

Achar. tab 1. f. 3.

microclona. Very thin, hoary: masses minute, scattered and somewhat confluent and branched, black. *Achar. suppl.*

fallax. Greyish, very thin: masses deformed, minute, flat, scattered, blackish-brown. *Persoon.*

Vitiligo. Whitish, very thin, membranaceous: masses roundish, a little convex, variegated grey and black. *Ach. t. 1. f. 4.*

tumidula? Leprous, smooth, cracked, whitish: masses minute, crowded, oblong-deformed, tumid, rufous-brown. *Ach. t. 1. f. 5.*

D. *In distinct or clustered white globular mealy spots, generally margined. frond crustaceous.* *Variolaria.*

**faginea*. Crust leprous, thin, glabrous, rugged, cracked, greyish-white: tubercles hemispherical, scattered, pure white.

Hoff. tab 2. f. 4.

orbiculata. Leprous, thin, granular, orbicular, bordered, greyish-white: tubercles central, minute, flattish, margined, of the same colour. *Hoffm. tab 7. f. 2.*

2. Blackish: tubercles pure white.

aspergilia. Tartareous, thin, rather solid, determined, with a smooth circumference, thinly cracked, grey: tubercles scattered, rather obscure, superficial, whiter. *Achar.*

2. Effuse, greyish-white, slightly cracked, smoothish: tubercles appressed, somewhat margined, round-deformed, rather confluent, of the same colour. *Westring.*

arcina. Tartareous, somewhat determined, whitish, broken into patches, mealy, with a smooth cracked border: tubercles clustered, irregular, pure white. *Westring.*

laetea. Tartareous, determined, with a warty area, smooth, white, with a somewhat radiate crenate-lobed border: tubercles nearly marginal, pure white. *Ach. t. 1. f. 6.*

discoidea. Leprous, mealy, white: tubercles becoming concave, deformed, margined, of the same colour. *Hoff. t. 7. f. 5.*

thelena. Irregular, very thin, with a warty area, somewhat mealy pure white: tubercles becoming conoid, bearing the fructification at top, which is very minute and of the same colour. *Ach.*

leucostigma. Blackish-brown, effuse: tubercles scattered, concave, minute, white. *Achar. t. 1. f. 7.*

viridula? Thin, mealy, greenish grey: tubercles hemispherical, green. *Hoffm. t. 2. f. 6.*

1938. LICHEN. *Fruetification* in tubercles or shields, invested with their proper cortical receptacles, on a variously formed and constructed frond.

A. *Receptacle*, or outer coat of the fructification, compact, hardish, of a different substance from the frond.

1. *Shields black: flat, oblong, elliptic, linear or variously formed, opening longitudinally, simple or connivent, or branched: frond crustaceous. Opegrapha.*

Perfoonii. Leprous, whitish: shields simple, oblong, turgid, somewhat impressed, rugged: *Achar.*

2. Somewhat mealy, unequal: shields raised, flexuous, plaited.

nethus. Leprous, thin, whitish, somewhat mealy: shields simple, broadish, rounded-deformed. *Perfoon. t. 2. f. 4. a. b*

2. *turgidus.* Shields scattered, raised, tumid; the larger-ones roundish and elliptic.

3. *confertus.* Dull-grey, somewhat membranaceous: shields oblong, minute, tumid, crowded.

4. *spurcatus.* Grey-brown, somewhat mealy: shields roundish, a little rugged.

5. *spaniotus.* Greyish-white, rather polished: shields few, minute, scattered, elliptic.

nimbosus. Leprous, rugged and cracked, glabrous, pure white: shields simple, roundish, oblong, minute, much crowded.

Achar. tab. 1. f. 8.

diaphorus. Dirty greyish-white, glabrous: shields simple, unequal; lesser-ones oblong-elliptic; larger ones long, flexuous. *Achar.*

2. *signatus.* Glauous-white: shields long, flexuous.

ellipticus. White, thin, a little rugged: shields simple, minute, elliptic, raised, scattered, with a concave mealy disk. *Achar. 1. 9.*

**betuligneus.* White with a black border, very thin, broad: shields simple prominent, long-elliptic, nearly straight and parallel.

Pers. t. 5. f. 3. A. 2.

parallelus. Pure white, smooth: shields simple, emerging, linear-elliptic, flat, straight, pointed, parallel, black-brown, naked.

vulgatus. Greenish-white, squamular, somewhat mealy: shields simple, minute, oblong, linear, somewhat flexuous, crowded; margin a little inflected; disk very narrow.

rubellus. Reddish-brown, a little rugged, bordered: shields simple, roundish, oblong, here and there flexuous. *Pers. t. 1. f. 2. A. 2.*

2. *drymeus.* Reddish-grey, somewhat mealy: shields long, flexuous.

3. *decoloratus.* Reddish-grey, a little mealy: shields roundish and rather oblong, crowded.

4. *viridis.* Greenish-brown, leprous: shields appressed, roundish, oblong and deformed.

profodus. Grey greenish-brown, contiguous, unequal: shields simple, linear, turgid, rugged, scattered, somewhat flexuous, with an inflected connivent border.

- obscurus*. Somewhat olivaceous, membranaceous: shields simple, somewhat elliptic, deformed, wrinkled. *Pers. t. 3 f. 3. Bb.*
2. *spilotus*. Greyish limited with black: shields broader, angular-crenate, irregular.
3. *reniformis*. Olive, glabrous, polished, slightly limited: shields kidney-form. *Pers. t. 2. f. C.*
- herpeticus*. Olive brown limited with black, rather tumid and rugged: shields simple, confluent, deformed.
- conglomeratus*. Blackish, determined, thin: shields simple, oblong, clustered. *Pers. t. 3 f. 4. A. a.*
- epiphegus*. Crust hardly any: shields simple, oblong, appressed, much crowded, clustered into broad deformed black spots.
- macularis*. Crust hardly any: shields simple, roundish, convex, clustered in a roundish black spot.
- astroideus*. Determined, irregular, membranaceous, smooth, white: shields depressed, stellately cloven and pedate.
2. *radiatus*. Determined, olivaceous: shields radiately stellate and pedate, a little rugged, *Pers. t. 2 f. 3. B. b.*
- siderellus*. Broad, membranaceous, pale rufous: shields prominent, scattered, deformed, simple and 3 or 4-cleft. *Pers. t. 2. f. 3. A a*
2. *cæneus*. Brassy-green, very thin: shields very minute, oblong-prominent, mostly simple.
- epipasus*. Somewhat determined, irregular, very thin, smooth, glaucous-white: shields minute, oblong, linear, turgid, flexuous, simple and branched.
2. *canagana*. Olivaceous: shields a little tumid, simple, oblong and deformed, stellately branched and angular.
- denigratus*. White membranaceous: shields linear, a little prominent, glabrous, crowded, flexuous, simple and branched.
Pers. tab. 1. f. 2. C. c.
2. *melanebrus*. Pale flesh-colour: shields dispersed, here and there confluent.
- Cerasi* White, effuse: shields slightly immersed, linear, a little flexuous, nearly parallel, glabrous, simple and branched.
- pulverulentus*. White, membranaceous: shields immersed, turgid, linear, nearly flexuous, slightly branched. *Pers. t. 1. f. 2. B. b.*
2. *fraxineus*. Flesh-colour: shields nearly straight and simple.
3. *microcephus*. Pure white: shields very short, nearly straight, much crowded and confluent.
4. *gramaleus*. Pure white: shields simple, scattered, nearly straight and naked.
5. *flexuosus*. Greyish-white: shields very long, flexuous, reticulately anastomosing.
- serpentinus*. Leprous, a little tumid, determined, white: shields immersed, crowded, linear, flexuous, simple and branched, glaucous-mealy.
2. *litterellus*. Whitish, thinner: shields radiately branched; branches crowded, longer, divergent, nearly parallel and decussate, grey-black.

3. *subtilis*. Dirty white, with a greyish rugged circumscription: shields minute, much crowded, flexuous, nearly simple, pruinous.
- **scriptus*. Membranaceous, polished, greenish-white bordered with black: shields naked, glabrous, linear, flexuous, simple and branched. *Hoffm. t. 3. f. 2. b.*
2. *macrocarpus*. Dirty white, effuse: shields very long, straight, nearly parallel, simple and forked at top. *Pers. t. 1. f. 1. a. b.*
- 3- *hebraicus*. Dull grey, effuse: shields straight, curved and branched at right angles. *Hoffm. t. 3. f. 2. a.*
- detriticus*. Tartareous, determined, pure white, somewhat mealy: shields depressed, naked, exquisitely branched; divergent branches and branchlets forked. *Achar. t. 1. f. 10.*
2. Shields or tubercles sessile, hardish, orbicular or deformed by mutual pressure; their disk flattish or becoming convex, often with a thickish margin, nearly the colour of the disk: frond crustaceous, foliaceous, stellate, or umbilicate. *Lecidea.*

A. Frond crustaceous, uniform. Catillaria.

- **Muscorum*. Whitish, thin, somewhat mealy: shields flat, margined, black, becoming hemispherical, confluent. *Eng. Bot. t. 626.*
- **immersus*. Greyish-white, smooth: shields immersed, margined, black, becoming convex and deciduous. *Eng. Bot. t. 193.*
- dryinus*. White, leprous, somewhat mealy: shields black, somewhat globular, becoming dilated, margined, appressed, at last rugged and irregular.
- lilacinus*. Pale greyish lilac, thin, determined, with a sinuate circumference, edged with black: shields minute: black, somewhat globular, becoming flattish, margined, depressed.
- **parasemus*. Greyish, thin, uninterrupted, edged with black: shields black, flattish, margined, becoming convex. *Eng. Bot. 1450.*
- * 2. *Elæochroma*. Pale green, limited, granular, cracked: shields black, margined, becoming convex. *Eng. Bot. t. 1451.*
3. *punctatus*. Greyish-white, rather effuse; shields minute, black, plano-convex, rarely scattered.
4. *atro-sanguineus*. Crust hardly any: shields minute, black-sanguineous, with a black border.
5. *Athrous*. Grey, unequal, rugged: shields black, crowded, raised a little convex, at length surrounded by an accessory margin from the crust.
- coniops*. Granular, unequal, whitish grey edged with black: granulations deformed, somewhat lobed: shields black, margined, superficial, flat.
- **petraeus*. Orbicular, equal, thin, whitish, very finely cracked in a somewhat radiate manner: shields black, flattish, in concentric circles. *Eng. Bot. t. 246.*
2. *excentricus*. Thin, white, with a fine black edge, and decussate with serpentine lines: shields irregularly scattered.
3. *callispeus*. Greyish-blue, somewhat limited: shields minute, crowded, depressed, at length raised.

**contiguus*. Glaucous-white, granular, tessellate: shields clustered, depressed, flattish, angular, black, with a narrow raised margin.

Eng. Bot. t. 821.

lapicidus. Tartareous, broad, a little rugged in the divisions, grey: shields depressed, flattish, crowded, becoming unequal angular and confluent, black. *Hoffm. t. 57. f. 2.*

2. *cyaneus*. Glaucous-grey, cracked, edged with black: shields blueish-black, with a black margin.

Helycopis. Somewhat tartareous, unequal, frustular, cracked into patches, grey edged with white: shields raised, scattered, flattish, margined, black.

rivulosus. Brownish-grey, cracked into patches, edged and decussate with black serpentine lines: shields superficial, scattered, flat, margined black.

* *miscellus*. Tartareous, granular-warty, brownish-grey: shields becoming convex, irregular, black, slightly margined.

Eng. Bot. tab. 1247.

* *sanguinarius*. Rugged, warty, greyish-white: tubercles convex, hemispherical, black, bright red within. *Eng. Bot. t. 155.*

latypeus. Effuse, thin, unequal, granular-areolate: shields minute, crowded, black, flat, margined, becoming convex, a little warty on the disk.

* *confluens*. Somewhat effuse, cracked into patches, equal, smoaky-grey: shields convex, confluent, black. *Hoffm. t. 19. f. 1.*

2. *pilularis*. Whitish: tubercles nearly globular, black, without margin.

Linn. Trans. 2. t. 28. f. 1.

3. *sterizus*. Crust none: shields scattered, distinct, hemispherical, rather polished.

4. *achromelus*. Ochraceous on the surface, often decussate and bounded with black serpentine lines.

fumosus. Bounded, cracked, equal, sooty-grey: shields depressed, flattish, margined, black. *Hoffm. t. 49. f. 2.*

strobocarpus. Bounded, areolately warty, glabrous, polished, lurid brown: shields crowded, immersed in the protuberances, flat, black, finely margined.

* *cechumenus*. Bounded, areolately cracked, greyish olive: shields becoming convex, deformed, margined, black. *Hoffm. t. 54. f. 1.*

2. *disfractus*. Olive, in somewhat imbricate lobed patches surrounded with a tumid black rather mealy border.

3. *cirsodes*. Olive-brown, in somewhat flexuous hardly margined patches: shields becoming convex, clustered, tubercled, deformed, very large, black.

* *uliginosus*. Granular, gelatinous, olive-brown: shields black, flattish, margined, becoming convex and clustered. *Eng. Bot. t. 1466.*

2. *geomus*. Leprous, granular, grey-ferruginous: shields black, convex, contiguous, confluent.

3. *humosus*. Leprous, blackish: shields becoming convex, clustered, black-brown.

colosus. Effuse, flocular-mealy, grey greenish-rufous: shields minute, deformed; becoming clavate, flat, margined; at last convex, black, with an evanescent margin.

- pallido-niger*. Pale ferruginous, mealy: shields raised, flat, black.
Thunb. prodr.
- fusco-ater*. Effuse, finely cracked, black, opaque; some of the patches polished, flat, black-brown: shields plano-convex, intermixed, black. *Jacq. t. 6. f. 2. b.*
- dendriticus*. Orbicular, pitch-black, with a radiate fringed circumference: shields flat, crowded, margined, of the same colour. *Hoffm. t. 19 f. 4.*
- **atra-albus*. Effuse, very finely cracked, black, with some warty convex scattered whitish patches: shields plano-convex, intermixed, black.
- **atro-virens*. Effuse, finely cracked, black: warts appressed, minute, crowded, roundish, smooth, yellowish: shields flattish, intermixed, black, with a rather mealy disk. *Hoffm. t. 17. f. 4.*
2. *geronticus*. Black, rather continued, finely cracked: warts rarely scattered, convex, rugged and cracked, deformed, somewhat mealy, palish-white: shields margined, black. *Flor Dan. t. 472 f. 3?*
- *3. *geographicus*. Yellowish, tessellated, with a black margin and lines: shields irregular, flat, black. *Eng. Bot. 245.*
- **tigillaris*. Effuse, areolate, plaited-warty, glabrous, yellowish: warts raised, bearing the shields: shields flat, margined, black.
Eng. Bot. 1530.
- balonius*. Cracked-areolate, glabrous, pale greenish yellow: shields scattered, black, flat, margined, becoming convex and conic.
- **citrinellus*. Leprous, granular-mealy, greenish-yellow: shields minute, nearly globular, black. *Dicks. t. 8. f. 9.*
- scabrosus*. Effuse, very thin, greenish-yellow, mealy: shields convex, rough, black.
- **silaceus*. Tartareous, tessellated, yellowish-red: shields flat, margined, becoming convex, somewhat confluent, black.
Eng. Bot. t. 1118.
- **Oederi*. Thin, tessellated, somewhat rugged, rusty-red: shields minute, a little immersed, somewhat globular, black, with a punctiform impressed disk. *Eng. Bot. t. 1117.*
- **privignus*. Crust hardly any: shields dispersed, deformed, plaited-wrinkled, black. *Linn. Trans. 2. t. 28. f. 2.*
- **conspurcatus?* Thick, rugged, greyish, snow-white within: shields minute, brown, becoming concave and black. *Eng. Bot. 964.*
- sagguineo-ater?* Leprous, mealy, greenish-white: shields hemispherical, not margined, bright red, becoming blackish-red.
- viridi-ater?* Papillous, yellowish-green; shields black.
- argillaceus*. Very thin, dull yellow: shields rather clustered, black, fulvous-red within.
- terminalis?* Black: shields convex, black. *Fl. Dan. 897. 1.*
- piceus?* Somewhat orbicular, blackish: shields flattish, rather compressed, black, polished.

cyathoides. Effuse, cracked, unequal, greyish-white: shields superficial, plano convex, flexuous, black with a raised margin; the disk grey-mealy.

cotarius. Thin, effuse, mealy, grey: shields minute, crowded, rather concave, black, with a rather flexuous margin here and there strewed above and below with white flocular masses, becoming convex, black, and nearly without margin.

* *lynceus*. Smooth, equal, white: shields depressed, oblong, curved, obtuse, pruinous, blackish with a black smooth margin.
E. Bot 809.

albo-cærulescens. Tartareous, equal, uninterrupted, white: shields raised, the disk flat, bluish-white, pruinous; margin becoming flexuous, black. *Hoffm. t. 14. f. 2.*

speircus. Tartareous, pure white: shields sessile, flat, blueish, pruinous, margined, becoming convex black and naked.
Hoffm. t. 36. f. 2.

* *epiporus*. Tartareous, tessellate, uninterrupted, white: shields raised, with a flat bluish mealy disk, and black margin becoming flexuous. *Eng. Bot. t. 1137.*

corticulus. Effuse, cracked, pure white: shields flat, appressed, minute, crowded, becoming somewhat globular, black, grey-mealy.
Act. Stockh. 16. t. 5. f. 6 a—c.

2. *amylaceus*. Somewhat powdery: shields clothed with a whitish mealiness.

abietinus. Effuse, very thin, smooth, rather glaucous: shields superficial, flat, margined, blueish-black, mealy.
Act. Stock. 5. 16. t. 15. f. 7.

* *pruinofus*. Leprous, very thin, red-ferruginous: shields plano-convex, deformed, blueish-black, mealy. *Dicks. t. 9. f. 4.*

Dillenianus. Tartareous, plaited, granular, soft, rosy: shields flattish, blueish-black with a blackish margin, mealy.
Achar. prodr. tab. 1. f. 1.

* *corneus*. Effuse, thin, smooth, white: shields superficial, concave, semitransparent, horny becoming brown, with an entire raised paler margin. *Eng. Bot. t. 965.*

* *luteo-albus*. Effuse, thin, smooth, white: shields orange, flattish, with a border of the same colour, becoming convex without border. *Eng. Bot. t. 1426.*

rosellus. Thin, greyish: shields plano-convex, rosy, with an obtuse paler margin. *Jacq. 3. t. 2. f. 3.*

2. *anceps*. Leprous, granular mealy: shields flesh-colour, the disk becoming dull rufous, with a tumid paler margin becoming depressed.

incarnatus. Granular, brown: shields flesh-colour: mealy, becoming convex and flexuous. *Thunb. prodr.*

* *icmadophilus*. Effuse, granular, unequal, pale greenish-grey: shields flat, flesh-colour, becoming dilated and a little convex, with a thin flexuous margin. *Eng. Bot. 372.*

2. *elveloides*. Granular, greenish: shields flat, becoming convex, yellowish-brown, flexuous, irregular.
3. *eruginosus*. Cracked and granular, greenish glaucous-grey, a little limited: shields flat, flexuous, flesh colour. *Hagen. t. 1. f. 4.*
- subcarneus*. Tartareous, determined, smooth, cracked, whitish, with a regular somewhat radiate circumference: shields flattish, margined, flesh colour, with a glaucous-mealy disk, becoming convex clustered and deformed. *Act. Stock. 5. t. 6. f. 4.*
- luteolus*. Leprous, granular, greenish-grey: shields becoming convex, yellowish. *Hoffm. t. 5. f. 1.*
2. *acerinus*. Smooth, naked, very thin, whitish grey: shields flat, red-brown.
3. *arceutinus*. Smooth, naked, very thin, whitish grey: shields flat, dull brown, becoming black.
- Russula*. Rugged, areolate, white: shields flat, deep red, becoming rufous-brown.
- hypoptus*. Effuse, leprous, thin, unequal, grey-brown: shields plano-convex, not margined, black-brown.
- Erysibe*. Leprous, cracked, floccular-mealy, dull green: shields a little immersed, minute, rather convex, rufous-brown.
- viridescens*. Leprous, effuse, thin, granular, green: shields a little convex, rugged, blackish-brown.
- * *querneus*. Leprous, granular, pale yellowish-brown: shields somewhat immersed, black-brown, becoming convex.
Eng. Bot. t. 485.
- * *Stonei*. Leprous, white, with a fibrous circumference: shields immersed, concave, scarlet, becoming convex, with a thick leprous border. *Eng. Bot. t. 486.*
- granulosus*. Leprous, granular, hoary: shields flattish, becoming convex, pale and dull rufous. *Hoffm. t. 30. f. 3.*
2. *decoloratus*. Granular, grey: shields flat, margined: rufous-flesh colour and blackish. *Hoffm. t. 39 f. 2.*
3. *achrous*. Leprous, grey: shields minute, flat, pale, with a grey margin.
- * 4. *aporeticus*. Grey, granular-mealy; shields flat, blackish-brown, becoming rather convex, with an unequal flexuous slightly lobed border.
Eng. Bot. t. 1185.
- cyrtellus*. Effuse, very thin, smooth, glaucous hoary: shields minute, scattered, pale brown, becoming hemispherical and blackish-brown, with a thin paler nearly evanescent margin at the base.
- * *vernalis*. Effuse, very thin, greenish-white: shields becoming nearly globular, crowded, reddish-ferruginous. *Eng. Bot. 845.*
- * *sphaeroides*. Greenish-grey, somewhat mealy: tubercles globular, clustered, flesh-colour. *Dicks. t. 2. f. 2.*
- * *cinereo-fuscus*. Effuse, thin, unequal, slightly cracked, grey-white: shields flattish, becoming rather confluent, unequal, rufous brown.
Hoffm. t. 12. f. 1.
- * 2. *luteo-altus*. Effuse, thin, even, broken, unequal, whitish: shields minute, crowded, plano-appressed, becoming a little convex, pale yellow with a border of the same colour.

**aurantiacus*. Granular, cracked, pale lemon-colour: shields crowded, becoming a little convex, orange with a paler waved margin. *Eng. Bot.* 1305.

**2 rubescens*. Unequal, cracked, yellowish-grey: shields becoming convex, orange-red with a border of the same.

Jungermannia. Effuse, very thin, greyish-white: shields plano-convex, margined, red-orange. *Flor Dan.* 1063 f. 1.

rupestris. Thin, greyish: shields immersed, flat, margined, becoming convex and without margin, glabrous, naked, rufous.

Flor Dan 825. t. 2.

**2. calvus*. Tartareous, uninterrupted, even: shields becoming convex, polished, dull fulvous. *Dicks. t.* 6. f. 4.

casto-rufus. Effuse, cracked and areolate, rugged, glaucous-grey: shields deep scarlet with an entire margin of the same, becoming convex with a flexuous curled margin.

ammiospilus. Granular-warty, grey: shields scarlet, clustered, flat, with a raised double margin; the outer one accessorial and nearly evanescent.

**arostheus*. Effuse, cracked and areolate, somewhat mealy, greenish sulphur: shields pale buff, appressed, becoming convex and irregular. *Eng. Bot. t.* 1549.

**polytrapus*. Glabrous, cracked, greenish-sulphur and black: shields flat, margined, buff-colour, clustered, becoming convex angular and darker. *Eng. Bot. t.* 1264.

schroidicus. Unequal, somewhat mealy, greyish-white: shields a little concave, becoming flexuous, margined, yellowish.

**Ehrharianus*. Effuse, rugged, granular, cracked, greenish-white: shields yellowish, margined, becoming convex flexuous deformed and clustered. *Eng. Bot. t.* 1136.

**lucidus*. Leprous, mealy, pale lemon: shields minute, plano-convex, not margined, bright yellow. *E. Bot.* 1550.

**atro-rufus?* Leprous, greenish-white: shields rufous-brown, becoming convex a little gibbous and rather confluent.

Dicks. tab. 12. f. 4.

flavo-fuscus? Determined, thin, granular, yellow: shields pale brown, becoming convex and irregular.

obscurus? Leprous, somewhat mealy, blackish-brown: shields margined, dull rufous, becoming blackish.

rutilus? Blackish: shields globular, deep orange.

Jacq. Coll. 3. t. 6 f. 2. c.

nigro-virens. Black, gelatinous: shields minute, appressed, pale green with a white border.

b. *Frond crustaceous, imbricate or lobed.* *Lepidoma.*

**microphyllus*. Effuse, imbricate, grey blackish-brown; the lobes much crowded, minute, cut-crenate: shields reddish, becoming convex and black. *Act. Holm.* 16. t. 5. f. 3.

2. *corallinoides*. Black-grey : segments of the lobes running into crowded roundish coralliform branches: shields convex, black.
- **niger*. Nearly orbicular, imbricate, black; lobes minute, cut-crenate, the central ones finely branched: shields black, concave, becoming flat. *Eng. Bot.* 1161.
- **luridus*. Imbricate; lobes orbicular, crenate, brown-green, paler underneath: shields black, becoming convex. *Eng. Bot.* 1329.
2. *turbinatus*. Lobes abbreviate, crenulate: shields black, turbinate, wrinkled.
- **scalaris*. Dispersed, imbricate, pale olive; lobes kidney-form, rather erect and distinct, powdery on the margin and underneath: shields irregular, black. *Eng. Bot.* 1501.
- *2. *myrmecinus*. Granular-imbricate, blackish grey-brown; lobes much crowded, convex, irregular, grey-mealy on the margin and underneath; shields black. *Dill.* 82, 2.
- **vesicularis*. Somewhat imbricate: lobes irregular, convex, a little tumid, obovate, glaucous-mealy: shields black, with a paler border. *Eng. Bot.* t. 1139.
- **candidus*. Tartareous, somewhat imbricate, pure white; lobes swollen, crenate: shields convex, blackish, glaucous-mealy, the margin undulate. *Eng. Bot.* t. 1138.
- **decipiens*. Dispersed; lobes roundish, distinct, rather concave, tawny-red, white at the margin and underneath, becoming convex and flexuous: shields black: marginal, becoming convex. *Eng. Bot.* 870.
- testaceus*. Somewhat imbricate; lobes clustered, crenate, greenish-grey: shields marginal, convex, rufous. *Hoffm.* t. 22 f. 5. 6
- demissus*. Warty, somewhat imbricate, greenish-grey, with a foliaceous-lobed circumference: shields depressed, flattish, brown-rufous.
- Wahlenbergii*. Tartareous, orbicular, circularly plaited, greenish-yellow, with a rounded-lobed circumscription: shields rather convex, black. *Achar.* t. 2, f. 2.
- Smithii*? Imbricate; lobes crenate, greenish, white underneath: shields deformed, yellowish. *Mich.* t. 1, f. 1.
- celatus*? Tartareous; lobes depressed, curled, yellowish-grey, white at the margin and underneath: shields pale rufous.
- **canescens*? Tartareous, orbicular, plaited, whitish glaucous, with the circumference lobed: shields central, black, margined. *E. Bot.* 582.
- c. *Frond foliaceous, stellate, fibrous underneath*. *Sapthenaria*.
- Coccos*. Somewhat membranaceous, depressed, orbicular, sinuate-lobed, white: shields flat, margined, scattered, black.
- **pannosus*. Membranaceous, depressed, orbicular, grey-brown, downy and black underneath; the terminal segments many-cleft and slightly crenate: shields blackish-rufous, becoming convex.

geffypinus. Nearly orbicular, soft, mealy, whitish and downy both sides, with rounded cut-crenate lobes: shields flat, black; the margin becoming inflexed and mealy white.

d. *Frondfoliaceous, peltate*. *Omphalaria*.

**pustulatus*. Umbilicate, membranaceous, lobed, greenish-grey blistered and warty above, dark olive and deeply pitted underneath: shields flat, black, margined, becoming plaited. *E. Bot.* 1283.

pennsylvanicus. Umbilicate, somewhat membranaceous, grey-brown wrinkled and blistered above, black-brown pitted and granular underneath: shields flattish, black, with a rather flexuous margin. *Hoffm. t. 69. f. 1 2.*

3. *Tubercles hardish, mostly seated on a stalk, becoming shield-like and margined: frond crustaceous*. *Calicium*.

Arigonellus. Crust none: tubercles sessile, nearly globular, minute, black, with a flattish opaque disk, and thin glabrous margin.

tympanellus. Leprous, unequal, grey: heads sessile, black; disk flattish, dilated, grey mealy; margin thin, equal.

Obs. This is probably the same as *Tympanis Saligna*.

turbinatus. Heads turbinate, nearly sessile, black, rather polished, with a peniciform disk within the connivent margin.

parvicus. Crust hardly any: heads turbinate-lenticular, totally black, on a short stalk. *Achar. t. 2. f. 3.*

**clavatus*. Leprous, rugged, greyish-white, somewhat mealy: tubercles black, spherical, flattish, with a paler margin, on black rigid cylindrical stalks. *E. Bot.* 1465.

**graniformis*. Granular, leprous, greyish-white: tubercles scattered, roundish, black, polished, wrinkled, mostly sessile; without border. *Eng. Bot. t. 1464.*

tractellus. Greyish-white, thin: tubercles lenticular, glabrous, underneath and on the margin dull brown, the disk and base of the stalk black.

**sphaerocephalus*. Yellowish very thin: tubercles black, nearly globular, flattish, without margin, on black filiform stalks.

Eng. Bot. t. 414.

2. *quercinus*. Thin, grey: heads turbinate-funnel-form, black, grey-mealy.

3. *aduncus*. Thin, grey: heads nearly cylindrical, with a very prominent mealy disk.

4. *pubescens*. Thin, whitish-mealy: heads nearly globular, black, naked, on short stalks.

xylenellus. Slightly leprous and granular, glaucous-grey: tubercles black, glabrous, globular, becoming turbinate and cup-shaped: the disk flat, deep-black; pedicels grey at the base.

**trabinellus*. Rugged, thin, brownish-white: heads spherical, flattish, greenish-yellow, with a dark-brown powdery disk, on shortish brown stalks. *Eng. Bot. t. 1540.*

- hyperellus*. Rugged, areolate, glabrous, greenish-yellow: heads piceous, black above, lenticular: stalks cylindrical, thickened at the base.
- **chrysocephalus*. Granular, citron-yellow: heads lenticular, black, yellow-mealy above and on the margin, on polished cylindrical stalks. *Linn Trans.* 7. t. 8. f. 1.
- baliolus*. Granular, areolate, yellow-green: heads black-rufous, glabrous, polished, turbinate-lenticular, with a black disk; stalks compressed, long, taper, flexuous. *Achar.* t. 2. f. 4.
- corynellus*. Leprous, mealy, sulphur-green: heads lenticular, black, on straight cylindrical shortish stalks.
- lygodes*. Leprous, granular-mealy, dirty green: heads turbinate lenticular, black, on long round flexile stalks.
- chlorallus*. Very thin, whitish: heads turbinate, brassy-green outwardly, brown-mealy above; stalks thickened upwards, tapering to the base, greyish. *Achar.* t. 2. f. 5.
2. *elatinus*. Whitish, very thin, somewhat mealy: heads greenish underneath, brown-mealy above; stalks filiform, cylindrical, grey-brown.
- cantherellus*. Thin, white, powdery: heads yellowish, white-mealy, lenticular; stalks filiform, becoming naked, rufous-brown. *Hoff.* t. 4. f. 1.
- peronellus*. Grey white, very thin: heads lenticular, with a convex flesh-colour white-mealy disk; stems filiform, semitransparent, pale, becoming blackish.
- glaucellus*. Glauous white, very thin: heads blackish, becoming globular, hoary-mealy underneath, brown-mealy above; stems filiform.
2. *epidryus*. Crust hardly any: heads globular-lenticular, brown-rufous mealy, naked underneath; stems black, filiform, polished.
- acicularis*. Leprous, mealy, pale yellowish-green: heads nearly globular, fulvous-mealy; stems filiform, short, erect, fulvous-mealy.
- **capitatus*. Leprous, mealy, yellowish-green: heads globular, yellow, with a brown powdery disk; stalks long, a little flexuous, yellow. *Eng. Bot.* t. 1539.
- subtilis*. Tubercles globular, greyish: stalks filiform, sometimes divided, blackish.
4. Tubercles sessile, convex or hemispherical, black, variously plaited, closed, irregularly bursting when old: frond foliaceous, membranaceous, or cartilaginous. Gyrophora.
- glaber*. Membranaceous, peltate, unequally lobed, black-green, black underneath, naked and quite smooth both sides: tubercles nearly globular, wrinkly-plaited. *Act. Stockh.* 5. t. 2. f. 5. a. b.
- *2. *polyphyllus*. Frond complicate, with many luxuriant crowded irregular curled segments. *E. Bot.* 1282.

- *anthracinus*. Cartilagino-membranous, very brittle, peltate, expanded, irregularly laciniate, blackish-grey with raised dots above, footy black and quite smooth underneath. *Jacq. t. 9. f. 4?*
- deustus*. Membranaceous, peltate, slightly lobed, brown, naked smooth and pitted underneath: tubercles plaited, becoming convex and wrinkled. *Hoffm. 3. t. 68.*
2. *broterus*. Membranaceous, peltate, black-brown, black and pitted underneath: with an eroded sieve-like circumference.
- 3 *flocculosus*. Membranaceous, peltate, brown, rough above with floccular and scaly substances. *Jacq. 3. t. 1. f. 2.*
- erosus*. Membranaceous, peltate, wrinkled, with a jagged sieve-like circumference, black above, grey-brown somewhat granular and fibrous underneath: tubercles rather convex, plaited. *Hoffm. t. 70.*
- 2. *torridus*. Membranous, peltate, wrinkled, black, with a jagged somewhat cribose circumference, blackish-brown granular and reticulately fibrous underneath.
- *Jacquini*. Membranaceous, thin, peltate, flat, with a rounded somewhat cribose circumference, blueish-black and quite smooth above, greyish black with raised dots and fibres underneath: tubercles minute, with a circular plait or two. *Dill. t. 30. 118.*
- hyperboreus*. Membranaceous, peltate, with a jagged circumference, blackish-brown and wrinkled papillous above, smooth and obscurely pitted underneath: tubercles deformed. *Hoffm. t. 71.*
- *proboscideus*. Membranaceous, peltate, with a jagged and crenate circumference, footy-grey and reticulately wrinkled above, paler naked and smooth underneath: tubercles turbinate, becoming convex, concentrically plaited.
2. *exasperatus*. Membranous, peltate, blackish-grey, rough, with crowded nearly erect floccular and scaly substances. *Flor. Dan. 471. f. 3.*
- arcticus*. Coriaceous, thick, peltate, with a flexuous repand irregular slightly reflected circumference, greyish above with concentric plaits and raised dots, glabrous naked and pale ochre underneath: tubercles becoming globular, with numerous circular plaits. *Achar. t. 2 f. 6.*
- mesaræus*. Somewhat coriaceous, rigid, with many curled lobes, blackish-grey, brownish-white underneath, smooth and naked both sides: tubercles raised, circularly plaited. *Jacq. 2. t. 9. f. 5*
- *cylindricus*. Membranaceous, peltate, with a rounded-lobed circumference fringed with black, above greyish-glaucous, naked smooth and ochraceous underneath: tubercles turbinate, becoming convex, circularly plaited. *E. Bot. t. 522.*
2. *denticulatus*. Circumference of the frond denticulate and ciliate. *Dill. t. 29. f. 116.*
- *pellitus*. Coriaceo-membranous, peltate, plaited and sinuate in the circumference, above quite smooth and copper-brown, beneath black hairy with branched fibres of the same colour: tubercles becoming convex, intricately plaited. *Eng. Bot. t. 931.*

- spadochrous*. Cartilagino-membranous, rigid, peltate, with a plaited and slightly-lobed circumference, grey-glaucous with raised dots above, black hairy with branched black fibres underneath: tubercles becoming convex, circularly plaited. *Hoffm. t. 2. f. 3. 4.*
- **hirsutus*. Coriaceo-membranous, softish, with a plaited irregular repand reflected circumference, greyish-white with raised dots above, grey blackish-brown hairy with nearly simple fibres of the same colour underneath: tubercles becoming hemispherical, circularly plaited. *Aët. Stock. 5. t. 3. f. 1.*
2. *papyrius*. Orbicular, umbilicate, peltate, papyraceous, with a rounded-lobed circumference, naked beneath, cinereous both sides.
- velleus*. Membranaceous, peltate with a stalk, very large, with a slightly repand circumference, glabrous and smooth above, hairy with branched straightish fibres beneath, brownish-grey both sides: tubercles circularly plaited. *Dill. t. 82. f. 5.*
- murinus*. Membranous, peltate, with a plaited repand and slightly lobed circumference, with raised dots both sides, mouse-colour above, black-brown beneath: tubercles scattered, rather convex, slightly margined, circularly plaited. *Aët. Stock. 5. t. 2. f. 3.*
5. Tubercles nearly globular, black, with 1—4 round hollow cells, each covered with a wart-like deciduous lid: frond crustaceous. Bathelium.
- maftoideus*. Effuse, glabrous, somewhat cartilaginous, uneven, olive-brown: tubercles nearly globular, 1-3-celled, opening after the lid has fallen off. *Achar. t. 8. f. 3.*
6. Tubercles roundish-conoid, black, formed under the frond which they gradually elevate and penetrate, and with which they are more or less invested, generally with a central pore, sometimes entirely fall-off and leaving a hollow: frond crustaceous.
- Schraderi*. Tartareous, uninterrupted, whitish: tubercles globular, half immersed, umbilicate, black. *Schrad. 2. 7.*
- griseus*. Effuse, uninterrupted or slightly cracked, grey, green within: tubercles very minute, crowded, immersed, rugged, warty, becoming umbilicate, black.
- **fuscellus*. Thick, smooth, areolate, grey, black within: tubercles flat, somewhat immersed, minute, black, without the central pore. *Eng. Bot. t. 1500.*
- muralis*. Effuse, leprous, somewhat mealy, cracked, white: tubercles immersed, warty, black with white mealiness, becoming umbilicate and a little concave.
- *2. *teffellatus*. Leprous, very thin, tessellate, greyish, whitish round the tubercles: tubercles immersed, convex, black, smooth. *E. Bot. 533.*
- farreus*. Effuse, leprous, mealy, pure white: tubercles crowded, semiglobular, warty, black, pruinous.

- trachonus*. Effuse, mealy, green: tubercles very minute, nearly globular, umbilicate, black.
- viridulus*. Effuse, uneven, tessellate, olive green: tubercles prominent, hemispherical, warty, black. *Schr. t. 2. f. 4.*
- aractinus*. Thin, finely cracked, rough with raised dots, black: tubercles conic, plano impressed at top, black.
- athiobolus*. Thin, hardly interrupted, with very minute raised dots, umbre: tubercles hemispherical, turgid, umbilicate, black, polished.
- lithinus*. Thin, a little rugged, blackish-grey: tubercles very minute, hemispherical, entire and warty, at length with a central pore, black, opaque.
- byssaceus*. Thin, white, somewhat mealy: tubercles minute, a little immersed, umbilicate, black. *Weig t. 2. f. 9.*
- leucocephallus*. Thin, greyish-grey: tubercles crowded, prominent, nearly globular, umbilicate, black, white-mealy. *Hoffm. t. 2. f. 2.*
3. *amphibolus*. Mealy, blueish-white; tubercles with a blueish-white mealiness.
- stigmatelus*. Very thin, membranaceous, smooth, rather polished, greyish: tubercles minute, convex, warty, black. *Schr. t. 2. f. 2.*
2. *atomarius*. Very thin, even, pale glaucous-grey: tubercles plano-convex, umbilicate, blackish.
3. *Tremula*. White, uneven, cracked: tubercles very minute, much crowded, flattish, umbilicate, black.
- melaleucus*. Thickish, white, rather polished: tubercles scattered, hemispherical, warty, black. *Schr. t. 2. f. 3.*
- strictus*. Very thin, somewhat membranous, transparent, slightly wrinkled: tubercles minute, globular, superficial, umbilicate, black.
2. *minutissimus*. Very finely wrinkled in a fibrous manner, grey: tubercles nearly globular, very minute, thickly crowded, umbilicate, black.
- Epidermidis*. Very thin, effuse, milk-white: tubercles crowded, roundish-oblong, plano-depressed, rather convex in the centre, warty, black.
- Cerast.* Very thin, somewhat determined, transversely oblong, greyish-white, polished: tubercles scattered, elliptic, convex, umbilicate, black.
- punctiformis*. Very thin, somewhat determined, smooth, rufous-brown: tubercles minute: hemispherical, umbilicate, black.
2. *ptelæodes*. Very thin, grey-brown: tubercles minute, somewhat elliptic, rather convex, umbilicate, black.
- analeptus*. Somewhat determined, very thin, glabrous, olive: tubercles scattered, hemispherical-conic, warty, black. *Schr. t. 2. f. 1.*
- mamillanus*. Effuse, cartilagino-membranous, smooth, greenish: tubercles scattered, rather convex, depressed in the circumference, elevated and warty in the centre, black. *Achar. t. 3. f. 2.*

- gemmatus*. Effuse, very thin, glaucous-white: tubercles scattered, hemispherical, warty, black, polished *Ach. t. 3. f. 1.*
2. *dryogonus*. Thin, effuse, uneven, dirty grey: tubercles nearly globular, warty black, becoming perforated.
- carpineus*. Thin, blackish brown, determined, edged with black: tubercles hemispherical, warty, black.
- Tetracera*. Effuse, somewhat membranous, smooth, grey-olive: tubercles scattered, hemispherical, grey-olive, becoming glabrous warty and black at the tip.
- aspileus*. Membranous: polished, greenish yellow edged with black: tubercles crowded, hemispherical, greenish-yellow, becoming warty and black at the tip, falling off and leaving a shield-like hollow edged with black.
- nitidus*. Effuse, cartilagino membranous, smooth, pale greenish: tubercles crowded, hemispherical, becoming blueish-black at top, shining, warty, at length umbilicate. *Weig. t. 2. f. 14.*
- umbrinus*. Solid, minutely cracked, dark olive-black: tubercles of the same colour and black, conoid with a central pore.
Eng. Bot. t. 1499.
- ligniotus*. Effuse, uneven, granular-warty, mealy, black, opaque: tubercles inclosed, globular, deep black, warty, surrounded with the raised tumid margin of the warts.
- maurus*. Thin, effuse, smooth, rather polished, deep black: tubercles concealed, prominent, umbilicate at top.
- colpinus*. Effuse, warty, chestnut-brown; the warts smooth and bearing the tubercles: tubercles immersed, globular, black, depresso-umbilicate with an elevated central wart, surrounded with the tumid obtuse margin of the wart.
- pycinus*. Effuse, granular and somewhat imbricate, dark olive-brown: tubercles convex, black.
- acrotellus*. Crust none: tubercles dispersed, convex, rather confluent, unequal, minute, umbilicate, black-brown.
- friatulus*. Thin, dendritically figured, black, in separate deformed somewhat linear branched or radiate patches bearing the tubercles: tubercles raised, conic, truncate, black, impressed at top, with a rather acute margin.
- ceuthocarpus*. Irregularly determined, cracked in patches, broken, black, opaque, with a cut-crenate margin: tubercles immersed, with a prominent wart at top.
- ocellatus*. Effuse, uninterrupted, somewhat cartilaginous, greenish: tubercles immersed, flat, warty, their crust with a somewhat ocellate margin.
- spongiosus*. Spongy, thickish, green: tubercles immersed, pitcher-shaped, perforate with a pore, black.
- epigeus*. Pale yellowish: tubercles immersed, punctiform, black.

muscosus. Gelatinous, effuse, uninterrupted, quite smooth, greenish-black: tubercles minute, a little prominent, umbilicate, black.

velutinus. Effuse, very thin, dull green: tubercles emerging, globular, conoid-papillate, black. *Arch. Bot. 4. t. 1. f. 3.*

7. Tubercles immersed in the frond, opening at length by a central pore, filled with cases bearing seeds, rarely falling off: frond crustaceo-foliaceous or peltate. *Endocarpon*.

**Hedwigii*. Foliaceous, thickish, with distinct small rounded-angular lobes, dull glaucous-green, white on the margin and underneath, naked both sides. *Eng. Bot. t. 595.*

squamulosus. Foliaceous, thickish, somewhat imbricate, grey greenish brown, beneath grey woolly; lobes clustered, roundish, deformed, repand-lobed, with the margin of the same colour.

lachenus. Foliaceous, imbricate, brownish-green, beneath black spongy; lobes small, a little incumbent, rounded, slightly crenate, flexuous. *Dill. t. 30. f. 135.*

euplocus. Foliaceous, somewhat peltate, deeply lobed; lobes small, clustered, rounded, flexuous; crenate, brassy-green, pale yellow beneath, naked both sides. *Ach. t. 3. f. 4.*

phylliscus. Somewhat gelatinous, a little umbilicate or imbricate, minute, plaited, undulate, black-brown, beneath naked, black-brown, cut-lobed; lobes roundish, with a tumid margin; tubercles raised, hemispherical, black-brown, perforated.

leptophyllus. Foliaceous, peltate, minute, black-brown, black beneath, naked both sides, with a rounded lobe-repand circumference. *Ach. t. 3. f. 3.*

**miniatus*. Foliaceous, peltate, pale, with minute excavations, beneath smooth fulvous becoming wrinkled, with a repand-lobed circumference. *E. Bot. t. 593.*

**complicatus*. Foliaceous, complicately subimbricate, grey-brown, with raised black-brown dots, beneath blackish-brown; lobes rather erect, rounded, plaited-convolute. *Eng. Bot. t. 593. f. 2.*

**Weberi*. Foliaceous, somewhat coriaceous, complicate, grey, greenish-brown; ochraceous underneath, naked both sides: lobes crowded, flexuous, deformed, irregular, cut-lobed. *Eng. Bot. t. 594.*

tephroides. Somewhat foliaceous, grey, with a repand-lobed circumference: apertures of the tubercles prominent, black.

**smaragdulus*. Cartilagino-foliaceous, somewhat peltate, appressed, rounded, entire, greenish-yellow, paler underneath: tubercles immersed, rather concave, brown. *Eng. Bot. t. 1512.*

sinopicus. Crustaceous, areolate, deep red, with a rounded lobed circumference: tubercles depressed, rather acute, deep red, at length perforated.

Thunbergii. Foliaceous, peltate, orbicular, yellow-green, black-brown beneath, naked both sides: tubercles protuberant, rusty-black.

B. Receptacle, or outer coat of the fructification, of the same substance and colour as the frond.

10. Receptacle compound; the outer raised above the crust and wart-like, formed from the frond, perforated with a pore or two or cup-like, including the inner which is globular or flattish: frond crustaceous uniform. *Thelotrema*.

**pertusus*. Somewhat membranaceous, smooth, uneven, grey: warts hemispherical, with a black pore or two. *Eng. Bot. t. 677.*

chioneus. Somewhat leprous: warts much crowded, deformed, pure white, dotted with brown within: pores impressed, numerous, nearly the colour of the warts, becoming perforated with a brownish orifice. *Achar. t. 8. f. 2.*

leucostomus. Nearly orbicular, brownish: warts scattered, brownish; apertures white, perforated. *Arch. Bot. 4. t. 1. f. c.*

margaceus. Effuse, unequal, rugged, somewhat cracked, dull grey: warts scattered, convex, slightly papillate, perforated and of the same colour when ripe.

lepadinus. Cartilagino-membranous, smooth, glaucous-green: warts scattered, nearly conic, gaping, cup-shaped, brown within; margin of the aperture membranous, entire.

*2. *inclusus*. Membranous, polished, cream-colour; warts open, concave, flesh-colour within; margin of the aperture membranaceous, inflexed. *Eng. Bot. 678.*

hymeneus. Cartilagino-membranous, smooth, becoming uneven, greyish: warts rounded, at length deformed angular and half open; disk rather depressed brownish; margin tumid, slightly crenate, irregular. *Schrad. t. 1. f. 5.*

11. Tubercles roundish, terminal, inclosing a globular nucleus, at first closed, at length irregularly opening and discharging the nucleus which gradually moulders into a black dust: frond shrubby, solid, rigid. *Sphærophoron*.

**coralloides*. Cartilaginous, yellowish-grey: branches lax, divaricate, cylindrical, fibrilous: tubercles, nearly globular, equal. *Eng. Bot. t. 115.*

fragilis. Tufted, brittle, grey-brown: branches short, crowded, flat-topped, cylindrical, naked: tubercles turbinate-globular, a little warty. *Ach. t. 3. f. 5.*

**compressus*. Tufted, cartilaginous, white becoming brownish: branches short, crowded, plano-compressed: tubercles nearly globular, depressed at top, equal. *Eng. Bot. 114.*

12. Tubercles somewhat discoid, terminal, at first covered with the frond, at length bursting through and bearing small central coloured globules which eventually fall off: frond crustaceous, papillary or branched. *Isidium*.

dactylinus. Effuse, rugged-warty, somewhat cracked, papillary-branched, white: warts long, cylindrical, straight, clustered, solid, their tips becoming brown and bursting in cracks: tubercles when naked a little convex. *Ach. t. 3. f. 6.*

**corallinus*. Tartareous, areolate, warty-branched, greyish-white; globules of the branches of the same colour: tubercles puctiform, brownish. *Eng. Bot. t. 1541.*

Weslingii. Tartareous, cracked, unequal, pale-grey, in angular naked and slightly branched patches: globules of the branches brown. *Ach. prodr. t. 2. f. 2.*

phymatodes. Leprous, somewhat mealy, unequal, pale; papillary-branched; branches crowded, divided, with yellowish globules.

2. *phragmaeus*. Effuse, somewhat mealy, sulphur, a little warty; warts very short, pale yellow, bearing globules and tubercles of the same colour.

**coccodes*. Leprous, somewhat mealy, cracked, papillary; hoary: warts very short, bearing globules: tubercles brownish-grey. *Eng. Bot. t. 1511.*

2. *leucoteus*. Leprous, somewhat mealy and papillary, white: warts very short, white, bearing globules: tubercles blueish, mealy.

**aculatus* ? Leprous, papillary, white; warts turbinate: tubercles when naked plano-depressed, becoming convex, black. *Dicks. t. 6. f. 3.*

defraudans ? Branches crowded, flat-topped, united at top into a flat black mass: tubercles green, clustered above.

13. Shields immersed in the frond, concave, invested with a margin from the frond: frond crustaceous, uniform. *Urceolaria*.

**calcarius*. Determined, very thin, slightly cracked, rather mealy, pure white: shields minute, black, with a rather elevated margin. *Achar. t. 4. f. 1.*

**tessellatus*. Determined, glabrous, equal, very thin, tessellate, whitish: shields brown, becoming emergent with a white margin. *Eng. Bot. t. 450?*

*2. *compositus*. Tartareous, white, tessellate: shields flattish, black-brown irregular, margined. *Witt. t. 31 f. 2.*

compunctus. Very thin, smooth, grey-white: shields minute, cup-shaped, black edged with white.

cinereus. Tartareous, tessellate, grey edged with black: shields black, with a thin entire margin.

2. *tigrinus*. Effuse, even, tessellate, milk-white: shields becoming convex, rather contiguous, black. *Hoffm. t. 57. f. 1.*

*3. *polygonius*. Thin, greyish, tessellate: shields 1-3 in each division of the crust, minute, black. *E. Bot. 320.*

pelebotryon. Tartareous, somewhat spongy, whitish, a little warty: shields flattish, black, with a rugged-crenulate slightly inflected margin.

gibbosus. Effuse, glabrous, greyish-white, with globular-conoid gibbosities bearing the shields: shields black, with a slightly inflexed crenulate margin.

fimbriatus. Warty, grey blackish-brown, with a radiately fringed circumference; warts grey, bearing the shields: shields black, with an entire margin.

**Hoffmanni*. Effuse, warty, greenish-grey; warts crowded, lead-colour, plano-depressed, bearing the shields on a protuberance in the middle: shields brownish, with a mealy-wrinkled paler margin,

2. *contortus*. Crust hardly any or black, with nearly distinct and confluent spirally twisted whitish warts: shields black. *Hoffm. t. 22. f. 1—4.*

exanthematicus. Thin, uninterrupted, greyish: shields minute, with a closed inflexed connivent radiately cracked paler margin, becoming expanded and yellowish-flesh-colour.

Linn. Trans. 1. t. 4. f. 1.

panyrgus. Effuse, granular-warty, pure white: warts clustered, bearing the shields: shields glaucous mealy, with a convex entire margin. *Achar. t. 4. f. 2.*

**scruposus*. Effuse, tartareous, wrinkly-plaited, granular, greyish-white: shields cup-shaped, black, with a tumid inflexed slightly crenate margin. *Eng. Bot. t. 266.*

2. *albissimus*. Somewhat contiguous, mealy, pure white: shields glaucous-mealy. *Hoffm. t. 11. f. 1. b?*

3. *plumbeus*. Smooth, granular, lead-colour: shields much crowded, minute, black, with a raised slightly crenate proper margin.

Hoffm. tab. 11. f. 1. c?

4. *argillofus*. Thin, granular, greyish: shields glaucous-black, with a raised proper margin distinct from the frond.

5. *bryophyllus*. Granular, uneven, greyish, with a slightly lobed foliaceous circumference: shields glaucous black, with a flattish disk, and nearly distinct margin. *Hoffm. t. 21. f. 1.*

cinereocastus. Leprous, somewhat mealy, greyish-white: shields glaucous-blue, with a crenulate margin.

excavatus. Leprous, cracked, mealy, whitish-grey: shields black, margined.

geicus. Leprous, uneven, somewhat granular, grey: shields much crowded, minute, somewhat gelatinous within, grey.

foveolaris. Leprous, uneven, very finely granular, tessellate: shields impressed, pale, at length a little emerging and margined.

agelaus. Effuse, thin, somewhat membranous, uneven, smooth, fruticular-cracked; greenish-white: shields crowded, impressed, black with white mealiness, with a raised irregular margin.

**Acharii*. Determined, glabrous, finely cracked, pale testaceous: shields cup-shaped, reddish, at length with a somewhat raised margin. *Eng. Bot. t. 1087.*

**cirtaspys*. Greyish-glaucous: shields brownish, raised above the crust, with a flattish disk and proper brownish margin.

ocellatus. Tartareous, tessellate, grey: shields black, with a flattish disk and flat entire margin. *Hoffm. t. 20. f. 2.*

diamartus. Somewhat determined, tessellate, rusty-red: shields deformed, at length emerging, flattish, black, at last with a raised margin.

Wulfenii? Mealy, purplish rosy, with blackish-red margin and serpentine cracks: shields black. *Hoffm. t. 15. f. 1.*

2. *purpurascens*. Pale scarlet, pitted with most minute shields. *Hoffm. t. 19. 3.*

14. Shields thickish, raised above the frond, with a distinct margin of the colour and substance of the frond: frond various. *Parmelia.*

a. Frond crustaceous, uniform. *Lecanaria.*

**ater*. Rugged-granular, unequal, whitish-grey: shields black, at length convex, with a white border becoming flexuous and crenulate.

Engl. Bot. t. 949.

2. *argopholis*. Tartareous, glebular-warty, glabrous, pure white; warts becoming somewhat imbricate slightly lobed and deformed: shields brown-black, with a white margin at length inflexed crenate and somewhat lacerated.

confragosus. Effuse, glebular-warty, uneven, greenish: shields crowded, plano-convex, black, with an entire greenish margin becoming somewhat crenate.

exiguus. Leprous, thin, uneven, dull grey: shields minute, clustered, black, with a white crenulate margin, becoming a little convex with a brownish evanescent margin.

Act. Stock. 5. t. 5. f. 6. d. e. f.

2. *pinicolus*. Thin, granular-mealy, greyish: shields very minute, crowded, flat, black, with a black and white margin.

sophodes. Nearly orbicular, granular, dull grey-green: shields crowded, flat, becoming a little convex, black, with a rather tumid entire margin.

2. *pyrinus*. Effuse, thin, granular-mealy, greyish-green: shields minute, sessile, a little concave, black-brown with an entire margin.

3. *archæus*. Effuse, unequal, rugged, blackish-grey: shields clustered, flat, black, with a thin entire grey-brown margin.

milvinus. Tartareous, effuse, warty-granular, rusty-brown: shields flattish, black, with a raised entire margin.

pericleus. Leprous, thin, somewhat dispersed, white: shields convex, black, with rough dots; the margin of the base white-mealy, at length subevanescent.

epybryon. Leprous, mealy, snowy. shields purplish-black, with a white margin. *Jacq. 4 t. 7. f. 4.*

ostracodermus. Tartareous, determined, ruggedly tessellate, white, floccular-mealy: shields appressed, flattish, rough, black, with a depressed entire margin.

- grumofus*. Tartareous, granular-cracked, somewhat mealy, blueish-grey: shields a little immersed, convex, black; the margin becoming wrinkly-whitish. *Hoffm. t. 51. f. 1. 2.*
- **coracinus*. Cracked, grey-black: shields impressed, flat, crowded, black with a grey margin, becoming convex and the margin evanescent. *Dicks t. 9. f. 2.*
- **coarctatus*. Leprous, cracked, grey-brown: shields depressed, black, with a raised contracted pubescent white margin. *Eng. Bot. 534.*
- placifus*. Effuse, thin, hardly interrupted, uneven, grey: shields minute, crowded, nearly globular, with a punctiform black flat disk, and raised tumid white-mealy margin. *Achar. t. 4. f. 4.*
- ancylaceus*. Tartareous, cracked, glaucous-white, in smooth swelling patches: shields rather immersed, flat, white-pruinous, becoming convex and black, with an accessory white tumid margin at the base. *Aët. Stock. 5. t. 6. f. 6.*
- **fulpureus*. Tartareous, cracked, dull sulphur, in rugged and rather tumid patches: shields rather confluent, black-brown, mealy, with a paler margin at the base. *Eng. Bot. t. 1186.*
- **impositus*. White, powdery, slightly cracked: shields rather immersed, convex, deformed, grey-glaucous mealy, rufous internally and when the meanness is worn off. *Eng. Bot. t. 981.*
- glaucoma*. Tartareous, cracked, greyish-white: shields at length convex, deformed, glaucous, mealy, becoming blackish, with a flexuous grey-white margin. *Hoffm. t. 52. 53.*
- *2. *rimosus*. White, cracked in roundish-angular patches: shields glaucous with a white margin. *Fl. Dan. 468. 3.*
- *3. *varians*. Whitish, cracked: shields black, polished, with a white margin. *Linn. Trans. 2 t. 28 f. 3.*
- Swartzii*. Determined, cracked, unequal, white, with a radiate lacinate-branched circumference: shields nearly globular, glaucous, mealy, becoming clustered deformed and grey, with an irregular margin of the same colour. *Aët. Stock. 5. t. 6. f. 3.*
- angulosus*. Thin, frustular, unequal, greyish-white: shields plano-convex, pale grey and brownish-glaucous, mealy, becoming nearly globular clustered and deformed, with a subevanescent margin. *Jacq. 3. t. 5. f. 3. a.*
- Hageni*. Thin, effuse, greyish-white: shields minute, crowded, glaucous-brown, mealy, with a white mealy margin.
Hageni. tab. 1. f. 5.
2. *springeus*. Grey, somewhat mealy: shields minute, crowded, brown, somewhat mealy, with a glaucous-white crenulate-mealy margin.
- cyaneus*. Leprous, thin, smooth, whitish: shields flat, somewhat flexuous, mealy, brown, with a tumid blue margin.
- albellus*. Thin, uninterrupted, rather polished, milk-white: shields minute, scattered, pale flesh-colour, with a white margin.

2. *umbilicatus*. Leprous, greyish: shields minute, white, umbilicate.
- * *Perellus*. Tartareous, cracked, granular-warty, white: shields crowded, white, becoming flat, with a turgid margin at length flexuous. *Eng. Bot. t. 727. Orchall.*
2. *palleficus*. Granular, palish-white: shields scattered with a depressed pale disk and white tumid border. *Hoffm. t. 21. f. 2. a: 6.*
- * 3. *upsalienfis*. Very thin, pale glaucous white: shields pale yellowish, with a tumid white border. *Hoffm. t. 20. f. 2.*
- * *Turneri*. Leprous, mealy, greenish-white: shields flesh colour, mealy, with an entire leprous greenish white margin.
Eng. Bot. t. 857.
- * *tartareus*. Tartareous, granular, unequal, greenish-white: shields flat, testaceous, becoming a little convex and wrinkled, with a tumid white margin. *Eng. Bot. t. 156.*
- * 2. *frigidus*. Pale glaucous-white, thin, becoming branched; branches gibbous and spinulose: shields testaceous, with a white margin.
AA. Stock. 5. t. 6. f. 2.
3. *gonatodes*. Tufted, with divaricate twisted lobe-warty deformed solid branches rounded and obtuse at top, white.
- Hæmatomma*. Tartareous, mealy, pale sulphur: shields depressed, becoming convex and raised, deep red, with a mealy pale sulphur margin. *Hoffm. t. 11. f. 1.*
- * *coccineus*. Leprous, mealy, green-sulphur and yellowish; shields convex, raised, scarlet, with a mealy margin. *Eng. Bot. 223.*
2. *frondosus*. Leprous, mealy, greenish-yellow: shields immersed, larger, convex, irregular, scarlet, with a mealy margin. *Hoffm. t. 49. f. 1.*
3. *porphyrius*. Leprous, mealy, whitish, shields deep red, with an entire margin. *Hoffm. t. 51. f. 1.*
- * *puniceus*. Leprous, smooth, very thin, white: shields a little prominent, flat, scarlet, with a slightly crenate white margin.
- * *subfuscus*. Very thin, contiguous, smooth, greyish-white: shields sessile, scattered, rather convex, rufous-brown, with a very entire tumid greyish-white margin. *Dill. 18. 16.*
2. *bryontus*. Smooth, somewhat warty, pure white: shields flat, grey-brown, mealy, with a white entire margin.
3. *flexuosus*. Grey-whitish, granular, uneven: shields raised, flattish, pale rufous-brown, with a slightly inflected irregular mealy margin.
4. *tumidulus*. Smooth, grey-white: shields crowded, tumid, pale brown, with a thickish white margin.
5. *disans*. Thin: unequal, determined, blackish-grey, with a greyish-white edge: shields flat, pale, with a raised greyish margin; at length brownish-yellow, a little convex, and the margin flexuous.
6. *pallidus*. Thin, palish-white: shields pale and discoloured, becoming pale reddish-brown, much crowded, angular, with a whitish margin.
7. *argentatus*. Thin, nearly orbicular, quite smooth, white: shields deep reddish-brown, with a whitish tumid margin.
8. *podæus*. Thin, uneven, greyish: shields much crowded, irregular, angular, black-brown, with a white margin.

9. *melioicus*. Determined, in spots, rather rugged and tessellate, white: shields minute, crowded, rather depressed, black brown, with a white entire raised margin.
- **porriginosus*. Thin, mealy, greenish-white: shields brown, with a white marging, becoming tubercle like.
Linn. Trans. 7. t. 8. f. 4.
- **dispersus*. Scattered: unequal, lead grey: shields scattered, minute, flattish, brown and blackish-grey, with a raised whitish crenulate margin. *Eng. Bot.* t. 930.
- aipospilus*. Tartareous, determined, dull grey, with ramulous grey disk, and granular radiate lobed and crenate whitish circumference edged with black: shields brownish, somewhat bacillar, a little convex, without margin.
- spodophaeus*. Tartareous, grey brown, granular; granulations in nearly globular crowded short erect ramifications decumbent and somewhat radiate at the circumference: shields scattered, brown-chestnut, flat, with a granular-crenate grey-brown margin.
- poliophacus*. Tartareous, determined, greyish, granular; granulations plano-appressed, lobe-crenate, fringed somewhat fibrous and white at the outer circumference: shields superficial, pale brown, margined, flat.
- **ruber*. Effuse, unequal, granular mealy, white: shields crowded, pale red, with a convex slightly crenate white mealy margin.
Hoffm. t. 5. f. 2.
- **marmoreus*. Effuse, thin, mealy: greyish-green; shields scattered, salmon-colour, with a thick infected pale flesh colour margin becoming crenate. *Eng. Bot.* 739.
- effusus*. Effuse, thin, mealy, pale-brown: shields pale brown, with a very thin greenish-yellow border, becoming convex, the margin, evanescent.
- detritus*. Somewhat determined, pale-grey: shields appressed, flat much crowded, flesh-colour, becoming pale rufous irregular angular and margined from the crust. *Hoffm.* t. 64. f. 1—4.
- **frustulosus*. Tartareous, cracked, variegated whitish and black: shields flat, pale brown with a white border, at length convex and blackish-brown. *Dicks.* t. 8. f. 10.
- iballinus*. Finely cracked, pale greenish-yellow, bordered and decussate with black serpentine lines: shields depressed, flat, brown, hardly margined, appressed, at length with a raised greenish-yellow margin. *Ach.* t. 4. f. 3.
- **craspedius*. Effuse, cracked, unequal, grey-white: shields flat, tawny-red, becoming irregular, with a whitish flexuous margin.
Eng. Bot. t. 1040.
2. *arenarius*. Very thin, grey-white: shields saffron-red, with a paler border.

fuliginus. Somewhat effuse, granular, unequal, greyish-yellow: shields at length convex, orange, with a paler border.

Hoffm. t. 61. f. 3—9.

microthelius. Determined, nearly orbicular, yellow, glabrous, plaited-cracked, warty: warts globular, papillar, bearing the shields: shields orange red, with a yellow margin.

erythrellus. Somewhat effuse, smooth, wrinkly areolate, deep yellow: shields orange-red with a paler border, becoming nearly globular shining and without margin.

cerinus. Effuse, thin, unequal, grey: shields flat waxy-yellow, with a slightly inflected grey margin becoming blackish *E.B. 627.*

2. *gibbus*. Blackish-grey: shields crowded, flat, becoming angular, dirty brown-waxy, with a grey margin at length evanescent.

3. *chrysaspis*. Whitish: shields reddish-waxy, becoming convex, with a white margin.

4. *rotundus*. Very thin, glaucous-grey: shields smoky yellow-brown, with a grey margin.

5. *stillicidiorum*. Greyish green: shields waxy, greenish, with a grey margin. *Flor. Dan. t. 126. f. 2.*

6. *pyræus*. Greyish: shields minute, becoming convex, rufous-orange, with a grey and yellowish margin.

chloroleucus. Leprous, very thin, white: shields crowded, flat, olive-green, with a white undulate margin *Eng. Bot. 1373.*

vitellinus. Leprous, granular, unequal, deep yellow: shields flat, deep yellow, margined, crowded, somewhat mealy, at length a little convex and deformed. *Hoffm. t. 26 f. 1.*

2. *coruscus*. Somewhat effuse, deep yellow, frustular-granular; the granulations crenate-lobed: shields much crowded, flat, orange, with a raised flexuous yellowish mealy margin.

3. *holocarpus*. Orange: shields minute, crowded, rather convex, reddish-orange with the margin nearly the same.

byssinus. Powdery, brownish: shields dull yellow, with a white mealy border *Eng. Bot. 432.*

5. *arcuatus*. Deep yellow: shields dirty livid. *Hoffm. t. 27. f. 2.*

intricatus. Effuse, areolate, whitish-ochre; younger-shields olive, with an entire olive margin, at length blackish, with a convex subevanescent margin.

anomalus. Effuse, irregular; whitish; the divisions somewhat dispersed: shields flat, scattered, pale brownish, with a paler entire margin becoming a little flexuous.

varius. Granular, unequal, pale greenish-yellow: shields crowded, flattish, brownish and variegated, with a slightly inflected irregular brownish margin. *Hoff. t. 23. f. 4.*

2. *pleoritis*. Granular, greenish-yellow: shields much crowded, nearly the same colour, becoming angular, with an inflected cut crenulate paler margin.

3. *sarcopis*. Granular, dispersed, yellowish: shields irregular, flattish, red-flesh-colour, with a tumid granular crenate margin the same colour.

- epanorus*. Tartareous, glebular, granular-mealy: fulvous-green: shields flat, fulvous-green, with a convex tumid entire margin.
**luteus*. Effuse, mealy, pale-grey: shields flattish, deep yellow, with a thin powdery paler margin. *Eng. Bot. t. 1263.*
citrinus. Effuse, leprous, mealy, citron: shields minute, orange, with a yellow margin.

2. *fulvus*. Leprous, orange, with fulvous shields.

3. *phloginus*. Mealy, yellow: shields scattered, pale.

**fusco-luteus*. Effuse, thin, granular white: shields flat, dull yellow, mealy, with a margin of the same. *E. Bot. t. 1007.*

ochrochlorus. Whitish: shields nearly globular, olive-yellow.

Jacq. 3. t. 2. f. 1.

unicolor. Warty, yellow: shields yellow, with and without margin.

b. *Frond crustaceous, composed of imbricate scales.* *Psoroma*.

squamulosus. Imbricate, cracked, glabrous, grey-brownish, with angular slightly lobed segments: shields immersed, at length raised, flattish, margined, reddish-brown.

2. *amaurus*. Plaited-rugged, granular, grey-brownish, with angular slightly lobed segments: shields immersed, at length raised, flattish, margined, reddish-brown.

3. *discretus*. Chestnut, glabrous, in dispersed solitary tumid minute roundish segments: shields immersed, black brown, at length margined.

glaucocarpus. Imbricate, green-brown, with rounded slightly crenate lobes paler beneath: shields flat, blueish-black, pruinous, with a raised margin becoming flexuous.

liparius. Pale green, imbricate, with flexuous cut crenate lobes the same underneath: shields plano-convex, margined, pale rufous and glaucous, pruinous.

**crassus*. Greenish-white, imbricate, with flattish rounded lobes crenate undulate lobes brownish beneath: shields flattish, reddish-fulvous. *Dill. t. 24. f. 7.*

chrysoleucus. Pale sulphur, imbricate; lobes obtuse, crenate-lobed, black green underneath: shields golden yellow.

Linn. Trans. 1. t. 4. f. 5.

2. *rubinus*. Grey, imbricate; lobes crenate, blackish underneath: shields pale ruby. *Hoffm. t. 32 f. 1.*

Melaloma. Greenish, imbricate; lobes appressed, rounded, nearly entire, black on the margin and underneath.

cartilagineus. Pale grey, somewhat puffed, imbricate; lobes linear-lacinate, flexuous, ascending: shields flat, fulvous, with a whitish margin becoming flexuous and crenulate.

Aët. Stock 5. t. 5. f. 4

tortuosus. Greyish white, puffed, imbricate; lobes branched-laciniate, crowded, ascending, twisted, granular-mealy.

- * *Hypnorum*. Green-brown; imbricate; lobes irregularly cut, with a granular-mealy margin: shields scattered, flat, dull rufous, with an entire margin the colour of the crust. *E. Bot.* 740?
- lepidorus*. Pale yellowish, somewhat imbricate, granular-lobed; lobes roundish, rather distinct, crenate, ascending: shields scattered, convex, becoming dilated, flattish, bay, with a crenate-scaly margin the colour of the crust. *Hoffm. t.* 63. *f.* 4—7.
- * *brunneus*. Green-brown, imbricate; in crenate granular lobes: shields crowded, flattish, rufous, with a thin crenulate margin the colour of the crust. *Eng. Bot. t.* 1240.
2. *nebulosus*. Greyish, imbricate, granular-lobed: shields blackish-brown, with a crenulate grey margin. *Hoffm. t.* 40 *f.* 1.
3. *coronatus*. Grev, granular: shields minute, scattered, depressed, reddish, becoming convex, with a granular grey margin. *Hoffm. t.* 56. *f.* 1.
- * *candelarius*. Yellow-green, imbricate; lobes minute, much crowded, jagged, granular: shields flat, margined, yellow-green.
Dill. t. 18. *f.* 18. B,
2. *polycarpus*. Yellowish, somewhat imbricate, with crowded jagged lobes: shields much crowded, covering the frond, margined, yellowish.
3. *lychnus*. Dull yellow, frustular-puffed, granular; shields appressed, convex, glabrous, barely margined, orange-yellow.
- griseus*. Greyish, granular-leafy: shields black, becoming convex, with a crenulate greyish border.
- similaris*. Whitish, frustular, somewhat imbricate; lobes aggregate, convex: shields margined, whitish.
- c. *Frond crustaceous, flat, with a lobed or radiate circumference.*
Placodium.
- * *gelidus*. Tartareous, cracked, orbicular, radiately-lobed, grey-white, with a brown radiate central wart; shields scattered, red, with a thick entire grey-white margin. *Eng. Bot. t.* 699.
- * *circinatus*. Tartareous, orbicular, radiately plaited, cracked, glaucous-grey: shields central, much crowded, flat, blackish, becoming angular, with a very thin grey margin. *Hoffm. t.* 4. *f.* 5.
- alphoplacus*. Tartareous and somewhat cartilaginous, orbicular, radiately plaited in short nearly cylindrical segments, warty, rugged, greyish-white: shields central, flat, blueish-rufous, with a thin entire greyish-white margin becoming slightly lobed.
- fuscatus*. Tartareous, warty-cracked, olive-brown, radiately plaited: shields crowded, flattish, bay, becoming a little convex and angular, with a raised olive-brown margin. *Hoffm. t.* 51. *f.* 2.
2. *myrrhinus*. Cracked, lead-grey, radiately plaited: shields depressed, black contiguous.
- molybdinus*. Tartareous, orbicular, deeply cracked, radiately plaited, umbre-brown, with narrow terminal segments: shields black-brown, deep, with a slightly inflected tumid umbre-brown margin.

- versicolor*. Tartareous, areolate, white greenish-grey, with a somewhat imbricate radiate obtusely lobed circumference: shields minute, crowded, plano-convex, pale rufous, with a thin evanescent margin.
- variabilis*. Tartareous, orbicular, with a pale umbre centre and whitish-grey slightly lobed circumference: shields minute, crowded, glaucous-brown, becoming flexuous and blackish, with a white margin.
- ereuticus*. Tartareous, orbicular, warty-plaited, black-brown, with a radiate linear-lacinate and crenate circumference; the segments concrete, convex: shields black-brown, with a double black-brown margin.
- galactinus*. Tartareous, nearly orbicular, lobe-wrinkled, whitish: shields depressed, pale flesh-colour, with a whitish margin at length obliterated.
- * *epigeus*. Thin, tartareous, plaited-wrinkled, orbicular, white, with a smooth lobed circumference: shields crowded, becoming convex, blackish-brown with a white margin. *Dicks. t. 9. f. 5.*
- * *jaxicolus*. Somewhat imbricate, orbicular, pale greenish; lobes incumbent, cut-lobed, crenate, imbricately flexuous: shields flattish, fulvous, with a pale crenulate margin.
Hoffm. t. 11. f. 1.
- ægialitus*. Somewhat imbricate, orbicular, white, black underneath; lobes flattish, sinuate-lacinate and many-cleft in the circumference, with their margins raised and crenulate-mealy: shields flattish, black, with an inflected white margin.
- * *lentigerus*. Somewhat imbricate, orbicular, white, with flattish flexuous cut crenate lobes: shields flattish, scattered, reddish-yellow, with a white entire margin. *E. Bot. t. 871.*
- fulgens*. Somewhat imbricate, plaited-flexuous, orbicular, pale yellowish; lobes cut-crenate, white underneath: shields flattish, deep red, with a pale yellowish margin at length obliterated.
Hoffm. t. 48. f. 2.
2. *bractiatus*. Granular, unequal, nearly orbicular, dirty citron, with a lobe-crenate circumference; shields red with a yellow margin.
- * *elegans*. Plaited-wrinkled, somewhat imbricate, orbicular, yellow-orange; lobes in many linear segments, flexuous, radiate, rather distinct: shields margined, yellow-orange. *Dill. t. 24. f. 68.*
2. *tegaris*. Depressed, somewhat imbricate, orbicular, orange, with a cut-lobed circumference; lobes in many linear segments, pulpy: shields orange. *Hoffm. t. 17. 3. a.*
- miniatus*. Orbicular, granular, carmine, lobed; lobes minute, obtuse, rarely cut, short: shields minute, margined, becoming convex, carmine. *Hoffm. t. 60. f. 1.*

2. *obliteratus*. Granular, yellowish, with a nearly orbicular slightly-lobed circumference, shields flat, much crowded, central, becoming angular and convex, orange with a paler margin.
- chlorophanus*. Crustaceo-frondose, somewhat tartareous, thickish, deep yellow, radiately plaited, with nearly cylindrical lobes: shields flattish and convex, deep yellow.
- **Murorum*. Plaited-wrinkled, cracked, orbicular, greenish-yellow, with a radiate-plaited circumference; lobes cut, concrete: shields becoming convex, nearly the colour of the frond, with a paler margin. *Hoffm. t. 9. f. 2.*
2. *aurellus*. Frond hardly any; shields dispersed, minute, yellowish, with a thin paler margin. *Hoffm. t. 50. f. 2. c. d.*
3. *deropeus*. Effuse, irregular, slightly cracked, mealy, pale yellow: shields very minute, rather convex, yellow with a paler margin.
- d. *Frond foliaceous, somewhat membranous, depressed, stellate, more or less imbricate, fibrous underneath. Circinaria.*
- melanaspis*. Crustaceo-membranous, stellate, glaucous-grey, whitish with grey fibres underneath: segments of the circumference in many linear divisions: shields convex, black, with a greyish margin at the base.
- **caesus*. Crustaceo-membranous, stellate, greyish-white, grey with blackish fibres underneath: segments of the circumference cut-crenate: shields flat, grey-glaucous, becoming blackish, with a thin raised slightly inflected margin. *Eng. Bot. t. 1052.*
2. *dubius*. Crustaceo-membranous, stellate, glaucous-grey, grey with black fibres underneath: segments somewhat imbricate, linear, narrowed, convex, many-cleft: a little dilated at their tips, becoming mealy at the margin: shields black-brown, with an entire slightly inflected white margin.
- speciosus*. Cartilagino-membranous, stellate, glabrous, blueish-white, snowy with grey fibres underneath: segments deeply cut in many linear divisions, obtuse, margined, slightly ciliate: shields rufous-brown, with an inflected slightly crenate margin *Jacq t 7*
- lophyreus*. Membranous, stellate, glabrous, white, black naked with hollow dots underneath: segments narrow, many-cleft, somewhat imbricate: shields reddish, with an inflected nearly entire margin.
- leptaleus*. Somewhat membranous, stellate, greyish, beneath whitish with black brown fibres; segments linear, flexuous, many-cleft, ciliate with fibres: shields black, with a slightly crenate inflected white margin. *Dill. t. 20. f. 46. A. B.*
- cyclofclis*. Somewhat membranous, stellate, grey-glaucous, somewhat spongy with black fibres underneath: segments rather imbricate, flattish, many-cleft, cut, slightly lobed, with raised rather mealy edges: shields black-brown, with an inflected grey margin becoming crenulate. *Hoffm. t. 9. f. 1.*

2. *litboteus*. Membranous, stellate, brownish-grey black and spongy beneath: segments imbricate, flat, many-cleft, very narrow, pedate-cut and slightly ciliate at their tips: shields central, flat, black, with a grey margin.
- **ulothrix*. Somewhat membranous, stellate, grey-glaucous, with black fibres beneath: segments narrow many-cleft, flexuous, slightly ciliate: shields black-brown, ciliate underneath, with a grey margin. *Dill. t. 24. f. 72.*
- **pirellus*. Somewhat membranous, stellate, grey-green, black and spongy-fibrous underneath: segments short, somewhat imbricate, flat, cut-lobed, rather obtuse: shields flat, rufous, with an inflected greyish entire margin.
- **clæinus*. Crustaceo-membranous, stellate, olive-green, nearly naked and olive-green beneath: segments appressed, flat, pinnate-cut, linear and somewhat truncate in the circumference: shields central, umbre brown, with an olive-green margin.
- **incurvus*. Crustaceo-membranous, stellate, greenish-grey, black and fibrous-spongy beneath: segments somewhat imbricate, narrow, many-cleft, incurved at the margins and tips: shields rufous, with an inflected greenish margin. *Eng. Bot. 1375.*
- **aquilus*. Cartilagino-membranous, somewhat stellate, tawny-brown, paler with dark fibres beneath: segments imbricate, very narrow, many-cleft, recurved at the edges, deflected and broader in the circumference: shields dark brown, with a paler crenulate margin. *Eng. Bot. t. 982.*
2. *suppeus*. Effuse, imbricate, black-brown: segments thinly branched, crowded, very short, incumbent: shields flat, dilated, bay, with an inflected crenulate margin.
- **encaustus*. Cartilagino-membranous, somewhat stellate, shining, black beneath: segments somewhat cylindrical, forked, dotted: shields bay, becoming lobed, with a white margin. *Linn. Trans. 1. t. 4. f. 6*
- **lygius*. Cartilagino-membranous, stellate, shining, pitchy-black both sides: segments somewhat imbricate, in many palmate divisions, narrow, recurved at the edges: shields pitchy-black, with a thin crenulate margin. *Hoffm. t. 14. f. 2.*
- **fablunensis*. Cartilagino-membranous, stellate, black both sides: segments somewhat imbricate, many times forked, narrow, flat-tish, with slightly raised lacero-granular edges: shields olive-brown, with thin granular margin. *Dill. t. 24. f. 81.*
2. *hepatizon*. Cartilagino-membranous, somewhat stellate, black-brown both sides: segments cut-lobed, broader, expanded, with somewhat raised curled edges: shields brass-brown, becoming flexuous, with a thin granular margin.
3. *sciastrus*. Cartilagino-membranous, stellate, black-brown, deep black beneath with black fibres: segments somewhat imbricate, narrow, many-cleft, flat: shields concave, black-brown, with an entire margin.

- * *omphalodes*. Cartilagino-membranous, rigid, somewhat stellate, rusty black-brown, shining, dotted with black, black fibrous underneath: segments imbricate, many-cleft, linear, flat, rather truncate at their tips: shields dark bay, with an inflected slightly crenate margin. *Eng. Bot. t. 604.*
2. *panniformis*. Cartilagino-membranous, effuse, imbricate, grey, with black down underneath: segments short, scale-like, cut, jagged, rather erect.
- * *saxatilis*. Membranous, glaucous-grey, somewhat stellate, roughish, reticulately pitted, black fibrous beneath: segments sinuate-lobed, imbricate, flat, somewhat truncate: shields bay, with a thin inflected pale crenulate margin. *Eng. Bot. 603.*
- * *conspersus*. Membranous, stellate, glaucous-green, glabrous, dotted with black, black-brown and fibrous beneath: segments somewhat imbricate, flat, sinuate lobed, cut rounded-crenate: shields central, bay, with an inflected nearly entire margin.
Dill. tab. 24 f. 75.
2. *stenophyllus*. Membranous, effuse, pale greenish-brown with black fibres underneath: segments pinnatifid, long, linear, flexuous, intricately complicate: shields scattered, chefnut, with an inflected margin.
- centrifugus*. Membranous, from a central point, greenish-white, rugged, beneath white with grey-brown fibres: segments convex, many-cleft linear and obtuse in the circumference: shields rather marginal, scattered, rufous-brown, with an inflected nearly entire border.
- ambiguus*. Membranous, stellate, pale greenish, black-brown and fibrous beneath: segments appressed, flat, linear, narrow, deeply many-cleft: shields scattered towards the centre, minute, red-brown, with a raised nearly entire pale margin.
Hoffm. t. 40. f. 2-4.
- * *lanuginosus*. Membranous, stellate, greyish-white, mealy, blueish-black and downy beneath: segments somewhat imbricate, flat, sinuate-lobed, rounded with a mealy margin: shields small, raised, pale rufous, with an inflected mealy white border.
Dicks. t. 6. f. 1.
- * *aleurites*. Membranous, stellate, rugged-mealy, greyish-white, brown and nearly naked at the circumference beneath: segments rounded at top, cut-crenate: shields raised, reddish-brown, with an inflected crenulate mealy white margin. *Eng. Bot. t. 858.*
- * *stellaris*. Membranous, stellate, becoming plaited-wrinkled, naked, grey, whitish with grey fibres beneath: segments sublinear, convex, many-cleft: shields flat, blueish-black, at length concave and deep black, with an inflected grey margin.
Hoffm. t. 13. f. 2.
- aipolius*. Membranous, stellate, glaucous-grey, nearly naked, black-fibrous beneath: segments flatish, undulate, broader in the circumference, cut-lobed, crenate: shields flat, blueish, with a tumid inflected white entire margin. *Hoffm. t. 12. f. 2. c.*

- ambelinus*. Membranous, somewhat stellate, whitish, black downy beneath: segments flat, appressed, naked, nearly linear, many-cleft, obtuse, crenate: shields crowded, glaucous livid-brown becoming blackish, with a thin white entire margin.
- **pulverulentus*. Membranous, stellate, green-brown with a grey frost, black-downy beneath: segments somewhat imbricate, appressed, flat, many-cleft, rather linear, cut-crenate, a little retuse at top: shields flat, blueish, with a tumid involute entire margin. *Dill. t. 24. f. 71.*
- venustus*. Membranous, stellate, greenish-white, a little frosted with white, black fibrous beneath: segments somewhat imbricate, flat, appressed, in many sinuate divisions: shields flat, blueish, pruinous, with a thin entire margin, leafy-fringed in the circumference. *Achar. t. 8. f. 5.*
- pietus*. Membranous, stellate, whitish, grey-brown and somewhat fibrous beneath: segments somewhat imbricate, flat, lobed, many-cleft, obtuse, with rather raised mealy edges: shields black, with a tumid inflexed white entire margin.
- rubiginosus*. Membranous, stellate, greenish-white, black and a little fibrous beneath, with an uneven granular centre: segments in the circumference sinuate-lobed, many-cleft, obtuse, crenate, a little pruinous: shields rufous, flat, with a granular-crenate whitish margin.
- **affinis*. Membranous, stellate, lead-grey, blueish-spongy underneath: segments somewhat imbricate, sinuate-lobed, many-cleft, obtuse, crenulate: shields rusty-brown, with an inflexed slightly crenate whitish margin. *Eng. Bot. 983.*
- **plumbeus*. Coriaceo membranous, somewhat stellate, dark lead-grey, blueish spongy and downy underneath: segments imbricate, flat, broader, rounded-lobed, obtuse: shields crowded, dark rufous, with an inflexed grey margin becoming crenulate. *Eng. Bot. t. 353.*
- **parietinus*. Membranous, stellate, fulvous, paler and slightly fibrous beneath: segments flat, dilated at their tips, rounded-lobed, curled: shields fulvous, with a thin entire margin. *E. Bot. 194.*
- **olivaceus*. Membranous, stellate, olive-brown, shining, brownish and a little fibrous beneath: segments flat, dilated at top, rounded-lobed, wrinkled and dotted: shields olive-brown, with an inflexed crenulate margin. *Dill. t. 24. f. 77.*
2. *aspidotus*. Membranous, somewhat stellate, grey-brown dotted with green, imbricate: segments irregular, crenate-cut: shields crowded, large, flat, flexuous, rufous-brown, with a granular flatish margin. *Dill. t. 24. f. 78.*
3. *prolixus*. Membranous, becoming effuse, imbricate, naked, glabrous, shining; olive-brown, black-fibrous beneath: segments narrower, rather convex, cut-lobed: shields olive-brown, with an inflexed nearly entire margin,

corrugatus. Coriaceo-membranous, stellate, rugged-plaited, glaucous-greenish, black-brown fibrous beneath: segments rounded-lobed, plaited-flexuous, rugged: shields concave, very large, flexuous, red-brown, with a thin inflexed crenulate margin.

Dill. t. 24. f. 79.

**iliaceus*. Somewhat membranous, stellate, whitish-glaucous, a little frosted, blackish-brown with black fibres beneath: segments imbricate, rounded-lobed, sinuate-crenate, plaited, flexuous: shields brown, with an inflexed nearly entire margin.

Eng. Bot. t. 700.

scorteus. Coriaceo-membranous, stellate, greyish-white, shining, smooth, finely dotted with black, black-bristly beneath: segments somewhat imbricate, rounded-lobed, sinuate-crenate, flexuous.

**caperatus*. Coriaceo-membranous, stellate, plaited-rugged, pale greenish-yellow, black-bristly beneath: segments sinuate-lobed, rounded, slightly crenate: shields rather central, concave, chestnut, with an inflexed crenulate mealy margin. *E. Bot. 654.*

e. *Frond leafy, somewhat coriaceous, with vague lax expanded lobes villous underneath. Lobaria.*

**perlatus*. Somewhat coriaceous, expanded, glaucous-green, smooth, black-brown and a little villous beneath; lobes rounded, a little curled: shields cup-shaped dull red, with an entire margin.

E. Bot. t. 341.

2. *obvarius*. Somewhat coriaceous, expanded, slightly lobed, smooth, greenish-white, black beneath, naked both sides, with the whole margin flexuous: curled incurved thick and mealy. *Dill. t. 20. f. 39. B.*

**perforatus*. Somewhat membranous, expanded, glaucous, black-villous beneath, cut-lobed and fringed at the margin: shields funnel-form, at length, perforated, rufous, with an entire margin.

Eng. Bot. t. 341?

abvolatus. Coriaceo-membranous, expanded, grey-brown, grey-downy both sides; lobes rounded, emarginate: shields cup-shaped, somewhat marginal, rufous, with an inflexed nearly entire margin. *Smith.*

**herbaceus*. Somewhat membranous, expanded, smooth, bright-green, pale with brown down beneath; lobes cut-crenate: shields flattish, red-fulvous, with an inflexed nearly entire margin.

Eng. Bot. t. 294

**glomuliferus*. Somewhat coriaceous, expanded, smooth, glaucous-grey, white with brownish down beneath; lobes sinuate, rounded, crenate: shields red-fulvous, with a crenulate margin, intermixed with branched tufted excrescences. *Eng. Bot. t. 293.*

**scrobiculatus*. Somewhat coriaceous, expanded, smooth, pitted, glaucous-green, dark ferruginous and villous beneath with naked white spots; lobes rounded, cut and irregular: shields tawny, with an entire margin. *Eng. Bot. t. 497.*

- hottentottus*. Somewhat coriaceous, expanded, smooth, greenish grey-glaucous, black-hairy beneath, sinuate-lobed; segments cut, slightly crenate, ciliate: shields flattish, rufous-brown, with a ciliate margin.
- **pulmonarius*. Somewhat cartilaginous, expanded, glabrous, green and brown, pitted and reticulate, yellow-ferruginous and hairy beneath, sinuate-lobed, lobes retuse-truncate: shields nearly marginal, flat, rufous, with an entire margin. *Eng. Bot.* 572.
- **grœnlandicus*. Somewhat membranous, expanded, glaucous-green; lobes oblique, rounded, concave: shields marginal, nearly orbicular. *For. Dan.* t. 466.
- Azalea?* Coriaceous, expanded, dirty-green, curled: warts? confluent, black.
- **aquaticus?* Coriaceous, lobed, entire, glabrous both sides, greenish, reddish-brown beneath: tubercles in immersed dots.
Eng. Bot. t. 594.
- f. *Frondfoliaceous, gelatinous, variously formed.* Collema.
- **spongiosus*. Gelatinous, dull olive-green; lobes clustered, granular, cylindrical, obtuse: shields scattered, concave, red-brown, externally pale and spongy, with a thin erect margin. *E. Bot.* t. 1374.
- Menziesii*. Gelatinous, somewhat membranous, greenish-brown, white downy beneath; lobes rounded, flat: shields pedicelled campanulate, red.
- **saturninus*. Gelatinous, coriaceous-membranous, black-green, glaucous, and somewhat downy beneath; lobes oblong, rounded, entire, undulate: shields raised, flat, red. *Act. Stock.* 5 t. 1. f. 3.
- byrsæus*. Thick, lead colour; lobes rounded, crenate-cut, divergent: shields concave, rufous, with a tumid margin becoming crenate and rugged plaited.
- hydrocharus*. Expanded, thick, somewhat imbricate, grey glaucous-green; lobes ovate, repand, slightly cut: shields scattered, flat, pale rufous, with a raised nearly entire margin.
- **pulcher*. Somewhat fleshy, thickish, greenish-blue; lobes somewhat sinuate-rounded, unequal, entire, flexuous: shields scattered, pale rufous, with a tumid crenulate margin becoming convex and the colour of the frond.
- diaphanus*. Very tender, pellucid, greenish-blue; lobes rounded-laciniate, cut, plaited-undulate, curled, jagged-crenulate: shields lateral, scattered, becoming convex, ferruginous.
- **azureus*. Membranous, tender, pellucid, blueish; lobes rounded, undulate, entire: shields scattered, lateral, flattish, red with a pale margin.
- **bullatus*. Membranous, thin, pellucid, lead-colour; lobes rounded-laciniate, irregular, undulate, crenate: vesicles lateral, inflated, turbinate, open beneath, bearing the shields at top: shields convex, rufous.

- * *tremelloides*. Membranous, thin, lead-colour: lobes cut-sinuate, the segments rounded complicate undulate entire: shields lateral, slightly pedicelled, scattered, flat, red with a pale margin. *Dicks. t. 2. f. 9.*
- margineus*. Pellucid, membranous, greenish glaucous; lobes oblong, cut, rounded, plaited-undulate, entire: shields minute, marginal, ferruginous with a whitish border. *Dill. t. 19. f. 32.*
- * *lacerus*. Somewhat pellucid, membranous, glaucous-green; lobes rather erect, crowded, lacero laciniate, ciliate: shields scattered, concave, red, with an entire pale margin. *Dill. t. 19. f. 31. A. B.*
2. *ateleus*. Rather pellucid, membranous, greenish-glaucous; segments crowded, rounded-lobed, somewhat reticulate, nearly entire at the margin: shields red.
3. *imbriatus*. Membranous, greenish-brown; segments thickly fringed at the margin, the fringe much branched. *Dill. 19. 31. C.*
4. *pulvinatus*. Puffed, dark green; lobes crowded, rather erect, deeply cut, the segments flattish truncate and finely denticulate at top. *Dill. 19. 34. A. B.*
5. *bolacinus*. Puffed, black-green; segments crowded, erect, tender, linear, acute, tooth-pinnate. *Dill. 19. 35.*
- tunæformis*. Membranous, black-green; lobes oblong, deeply-cut, sinuate-laciniate, the segments obtuse, undulate curled crenate: shields scattered, brown, becoming black-green. *Dill. 19. 29. A. B.*
2. *opuntioides*. Membranous, granular, black-green, sinuate-lobed; lobes somewhat jointed, with obtuse rather kidney-form segments. *Dill. 19. 29. C.*
- * *nigrescens*. Membranous, of a single leaf, depressed, rugged and blistered, dark-green, with a rounded lobed margin: shields central, crowded, becoming convex, reddish-brown with an entire border. *E. Bot. 345.*
- chloromelos*. Somewhat membranous, orbicular, sinuate, plaited-rugged, black-green: shields marginal, rufous, with a warty margin.
- flaccidus*. Membranous, black-green, deeply-lobed; lobes distinct, oblong, rounded, obtusely lobed, entire, lax, complicated: shields scattered, rufous, becoming black-green. *Aët. Stock. 5. t. 1. f. 4.*
2. *rivularis*. Membranaceous, glaucous-greenish; lobes oblong, obtuse, somewhat repand, flexuous, curled, complicate: shields scattered, flat, pale red. *Aët. Stock. 5. t. 3. f. 5.*
- furvus*. Membranous, rugged-plaited, granular both sides, greenish-black; lobes deformed, cut, rounded, undulately curled, rather complicate: shields scattered, flat, black-brown. *Dill. 19. 24.*
- * *Burgessii*. Gelatino-membranous, imbricate, glaucous-green; lobes rounded, sinuate-crenulate, curled: shields depressed, flattish, dark brown, with a leafy curled margin. *Eng. Bot. t. 300.*

tenax. Imbricate, nearly orbicular, glaucous-green; lobes plano-incumbent, roundish, unequally crenate or palmate-lobed; shields scattered, a little immersed, concave, with a nearly entire margin. *Act. Stock. 5. t. 1. f. 1.*

limosus. Imbricate, rather effuse; lobes minute, appressed, graniform, entire and crenulate: shields immersed, concave, reddish-fulvous, hardly margined. *Act. Stock. 5. t. 3. f. 1.*

cheileus. Imbricate, nearly orbicular, black-green; all the lobes minute, ascending, rounded, crenulate: shields flattish, black-green, aggregate, with a crenulate subevanescent margin.

Schrad. Journ. 1799. t. 1. f. 2. d.

2. *micropæus*. Lobes minute, imbricate, crenate: shields scattered, minute, convex, without margin. *Schrad. f. 2. c.*

3. *graniformis*. All the lobes minute, graniform: shields large, plano-depressed, with a crenulate margin. *Schrad. f. 2. b.*

4. *bisfacies*. All the lobes minute, crenulate: shields most minute, at length convex, with a nearly entire margin. *Schrad. f. 2. d.*

**crispus*. Imbricate, orbicular, dark-green; central lobes rather erect, somewhat granular; terminal ones depressed, larger, obtuse, crenulate: shields flattish, bay, with a nearly entire margin.

Eng. Bot. 834.

* 2. *cristatus*. Imbricate, orbicular, dull-green, a little glaucous; all the lobes cut, toothed: shields depressed, large, reddish-brown.

Dill. t. 19. f. 26.

3. *aphaneus*. Blackish; lobes nearly obliterated: shields depressed, reddish, obscurely margined, crenulate.

4. *granulatus*. Orbicular, terminal-lobes rounded, nearly entire: shields central, crowded, depressed, rufous, with a granular margin.

5. *prasinus*. Minute, dispersed, nearly simple, naked, leek-green: shields immersed, concave, with an entire margin.

Schrad. Journ. 1799. tab. 1. f. 6.

scotinus. Imbricate, nearly orbicular, black-green; lobes minute crowded, rather erect, complicate, rounded, slightly lobed, nearly entire: shields lateral, scattered, black-green, with an entire margin. *Act. Stock 5. t. 3. f. 4.*

* 2. *sinuatus*. Orbicular, imbricate, rusty-green; lobes sinuate, cut, jagged, curled, denticulate: shields lateral, scattered, rusty-green. *E. Bot. 772.*

3. *laphæus*. Puffed, black green; lobes minute, crowded, jagged, denticulate, with branched fringe.

myriococcus. Nearly orbicular, imbricate, black; lobes crowded, plaited, curled, anastomosing, granular, marginal and aggregate, black, with an impressed punctiform disk. *Act. Stock. 5. t. 3. f. 2.*

**fascicularis*. Nearly orbicular, clustered, black-green, with central erect anastomosing plains: lobes of the circumference cut-crenate; shields marginal, tubinate-pedicelled, clustered, dull rufous.

Eng. Bot. 1162.

2. *conglomeratus*. Lobes and plaits very minute, on short stalks.

Schraa. Journ. 1799. t. 1. f. 3. c.

plicatilis. Imbricate, orbicular, black-green; lobes rounded, circularly plaited, undulate, rather erect, entire: shields scattered, sessile, concave, black green with an entire margin.

Atl. Stock. 5, t. 1. f. 2.

melænus. Stellate, imbricate, greenish black-brown; lobes jagged, with raised curled undulate crenulate margins: shields flat, marginal, the colour of the frond, with a granular margin.

Flor. Dan. 463. f. 1.

*2. *marginalis*. Somewhat stellate, brown-green; lobes deeply lacinate; segments linear, curled, many-cleft, flexuous, crenate at top, rather convex: shields marginal and scattered, black-brown with an entire margin. *Dill. t. 19. f. 25.*

3. *pyrosus*. Orbicular; lobes circularly plaited, curled; their margins plaited, closely approximate, nearly equal and entire: shields marginal, tawny. *Flor. Dan. 463. f. 2.*

* *palmatus*. Imbricate, puffed, pale greenish-brown; segments somewhat membranous, linear, many-cleft, somewhat palmate, flexuous, revolute and entire at the margin: shields scattered, reddish-fulvous. *Dill. 19. 30.*

Schradleri. Somewhat tufted, membranous, greenish-brown; segments implicate, flat, linear, irregularly divided, rugged, obtuse, obscurely and finely undulate-crenate at the margin: shields lateral?

Schrad. Journ. 1799. t. 2. f. 5.

* *subtilis*. Somewhat stellate, brown-green; segments appressed, minute, radiately subdivided, narrow, unequal; obtuse: shields central, concave, becoming flat, brownish, with a narrow even border. *E. B. 1008.*

* *tennuissimus*. Imbricate, greenish-black; segments in many linear unequal ciliate finger like divisions: shields somewhat immersed, reddish brown, with an obtuse entire margin. *Eng. Bot. 1427.*

* *muscicola*. Puffed, black-green; segments cylindrical, rather erect, flexuous, nodular, branched, flat-topped, rather obtuse: shields flat, nearly terminal, brown with an entire margin.

Dicks. t. 6 f. 9.

pannosus. Effuse, puffed, black; segments crowded, very tender, cylindrical, branch-ciliate, erect, acute, flat-topped.

velutinus. Effuse, puffed, leek-green; segments crowded, very tender, cylindrical, jointed? branched, interwoven, erect, flat-topped.

coriiformis? Somewhat coriaceous, greenish-black, sinuate-lobed; lobes nearly erect, repand-curved.

* *submarginalis?* Lax, prostrate, sinuate, curled, with spherical nearly marginal dark-green granulations. *Dill. 19. 22.*

fugax? Somewhat orbicular, hyaline-blackish, slightly lobed, knotty-plaited. *Dill. t. 10. f. 15.*

- **plocinus*. Thick, black-green, with raised intestine-like convolutions. *Dill. t. 19. f. 19.*
- sagenalis*. Membranous, peltate, rounded-lobed, thinly reticulate with veins, with minute brown granulations on the veins. *Dill. t. 19. f. 21.*
- **auriculatus*. Imbricate, dull glaucous-green, sinuate lobed, crenulate: shields depressed, muricate, pale rufous.
- **decissus*. Membranous, somewhat imbricate, with jagged lobes: shields brown, with a leafy margin. *Fl. Dan. 470. 3.*
- **cretaceus*. Stellate, lobed, dark-olive: shields central, raised, brown flesh-colour, with an entire paler margin. *Eng. Bot. t. 718,*
- synalissus*. Imbricate, curled, black: shields minute, clustered, obovate, united into a somewhat pedicelled head, depressed in the disk.
- ramulosus*. Black, many-cleft, cylindrical, obtuse.
- **fluviatilis*. Black green; segments many-cleft, nearly linear, convex, grooved underneath, proliiferous: shields nearly globular, hollow, black-green, nearly terminal. *Dill. 19. 28.*
- **Frond leafy, membranous, depressed: segments linear, somewhat imbricate, vaulted or inflected at their tips. Pnyscia.*
- **tenellus*. Membranous, greyish both sides; segments many-cleft, linear, ascending tubular-vaulted obtuse and ciliate at the tip: shields blueish-black. *Eng. Bot. t. 1351.*
- **physodes*. Glabrous, whitish, black brown beneath, naked both sides: segments expanded, in many sinuate divisions, rather convex, a little inflated at the tip: shields red, with a thin inflected entire margin. *Eng. Bot. 126.*
2. *vitatus*. Somewhat stellate; segments flattish above, edged with black, dilated obtuse and inflated at the tip.
3. *platyphyllus*. Orbicular, rugged-plaited, greyish, with a lobed rounded-crenate circumference.
- **diatripus*. Grey, white with black fibres and somewhat spongy beneath: segments expanded, rather imbricate, in many sinuate divisions, flattish, a little inflated at the tip, most of them perforated: shields reddish, with a whitish inflected entire margin. *Eng. Bot. t. 1248.*
- colpodes*. Pale grey, black spongy beneath: segments divaricate, somewhat imbricate, in many sinuate clefts: shields cup-shaped, dull brown, becoming dilated, with an inflected crenulate margin.
- cinnatus*. Glabrous, white, black beneath; segments circularly imbricate, lobed, obtuse, inflated: shields bay, crenate.
- enteromorphus*. Glabrous, white, black beneath; segments somewhat imbricate, lobed, obtuse, inflected: shields bay; entire.
- **duplicatus*. Lax, glabrous, white, black beneath; segments in many branched clefts, linear, inflated.

intestiniformis. Depressed, imbricate, segments linear many-cleft, long, compressed-cylindrical, jointed: shields bay.

h. *Frond leafy, membranous, tufted, laciniate-branched, fistular: branches cylindrical, obtuse, bearing the shields at their tips.*
Cenotea.

moluscus. Soft, brownish-grey: segments subdivided, nearly cylindrical, turgid, obtuse: shields terminal, rather convex, dull brown.
Achar. t. 4 f. 5.

flammeus. Yellowish; segments subdivided, nearly cylindrical: shields rather convex, raised, scattered and terminal, yellow-orange. *Hoffm. t. 3. f. 1.*

i. *Frond leafy, membrano-cartilaginous, tufted; segments rather erect, linear tapering, longitudinally channelled underneath.*
Canalicularia.

villosus. Membranous, villous-bristly, cinereous, naked and whitish beneath; segments linear, branched, somewhat flexuous: shields lateral, red.

atlanticus. Pale reddish, pubescent; segments branched, intricate, rigid, twisted, divaricate: shields lateral, flattish, black-brown.
Desf. Atl. 2. t. 258. f. 3.

**furfurascens*. Somewhat tufted, greenish-grey, mealy, violet black and naked beneath; segments branched, tapering, decumbent: shields lateral, cup-shaped, red-brown. *Eng. Bot. 984.*

2. *cerateus*. Segments narrower, a little erect, branched in a horn-like manner, pointed, hoary glabrous and naked above.

3. *scabifinus*. Segments broader, decumbent, with shorter branches, a little digitate at top, dull grey branny and scaly in tufts above.

**ciliaris*. Greenish glaucous-grey, naked and whitish beneath; segments branched, linear, fibrillous at their tips: shields terminal, black-brown. *Eng. Bot. 1352.*

2. *agriopus*. Segments somewhat imbricate, short, broader, rather palmate-crested. *Dill. 20. 45. D.*

3. *melanostictus*. Segments narrow, interwoven, blackish-green, with raised black dots above: shields black-brown. *Dill. 20. 45. B. C.*

*4. *astinorus*. Shields crowded, large, with a variously laciniated margin.
E. Bot. 1352.

solenarius. White both sides; segments branched, with a bristly margin: shields yellowish. *Dill. 21. 53.*

leucomelus. Naked, glabrous, white both sides, mealy beneath: segments linear, branched, fringed with black on the margin: shields pedicelled, nearly terminal, flat, blueish-black, with a white radiate margin. *Swartz. Obs. t. 11. f. 3.*

Trulla. Palish white, naked and glabrous both sides; segments linear, forked: shields marginal, cup-form, rufous brown, crenulate-rugged on the margin and beneath. *Achar. t. 4. f. 6.*

- linearis*. Palish-white, naked and glabrous both sides; segments linear, branched: shields somewhat pedicelled, marginal, palish-white, with an entire margin.
- * *Prunastri*. Soft, greenish-white, pitted and wrinkled, glabrous both sides, white beneath; segments linear, branched, divaricate: shields rather marginal: concave, bay with a thin slightly indented entire margin. *Eng. Bot. t. 859.*
2. *retusus*. Segments crowded, with shorter somewhat fastigiate branches, obtuse and slightly notched at top. *Dill. 21. 55?*
3. *phellinus*. Segments flat-topped, quite smooth both sides, flat somewhat palmate, pointed. *Dill. t. 21. 55. C?*
- k. *Fronde* somewhat leafy, cartilaginous or leathery; segments erect or pendent, flat or cylindrico compressed, pitted, tapering, branched, naked, glabrous. *Polymeria*.
- * *fuciformis*. Coriaceo-membranous, soft, greenish-white, segments flat, linear-laciniate, taper. shields somewhat marginal, bineish-white, mealy. *E. Bot. 728*
- * *fraxineus*. Somewhat tufted, greyish-white, glabrous both sides, rugged, pitted: segments flat, erect, linear-lanceolate, jagged: shields marginal and lateral, flat, pale. *Hoffm. t. 18. f. 1. 2.*
2. *taniarus*. Segments very long, nearly simple, pendent.
3. *amplius*. Segments very large, broader outwards, generally fringed on the margin. *Dill. 22. 59. C.*
- complanatus*. Tufted, pale, glabrous and smooth both sides; segments flat, linear, branched, somewhat flat-topped, with raised dots on the margin: shields scattered, concave, pale.
- ceruchis*. Membranous, nearly cylindrical, greenish-white, branched: branches vague, lax, unequal, somewhat fasciated, pointed: shields scattered, thick, with a flat white flesh-colour disk.
- * *fastigiatus*. Leathery, tufted, glaucous-grey, glabrous, linear-pitted, slightly divided; segments cylindrico-compressed, thickened upwards, flat topped: shields nearly terminal, sessile, - glaucous-grey. *Eng. Bot. 890.*
- * 2. *calicaris*. Segments unequal, branched, flexuous, diffuse, slightly channelled: shields nearly terminal, appendaged underneath. *Eng. Bot. 890.*
- * *Scopulorum*. Leathery: a little tufted, pendent, pale buff, glabrous, linear-pitted, branched; segments erect, compressed-linear, taper: shields scattered, pedicelled, a little convex, pale brown. *Eng. Bot. t. 688.*
2. *cornuatus*. Tufted; segments linear, nearly cylindrical and simple, curved, with knotty joints, somewhat fistular. *At. Stock. 5. t. 9. f. 2 H.*
- siliquosus*. Tufted, whitish, somewhat branched, erect, rigid; segments linear, tumid-compressed, nodulous, longitudinally grooved and sessile: shields lateral, pedicelled, convex: brownish flesh-colour. *Dill. 17. 38.*

- **farinaceus*. Tufted, glaucous-grey, glabrous, linear-pitted, branched; segments a little convex, taper: tubercles and shields convex, marginal; shields scattered, pedicelled, flat, pale buff. *Eng. Bot. t. 889.*
2. *leucosus*. Segments erect, nearly simple, cylindrico-filiform, pure white.
3. *pendulinus*. Segments long, narrow, pendent.
4. *phaleratus*. Segments broader upwards, flat, cut, a little warty, mostly lacinate proliferous at the tip and margins. *Dill. 23. 63. E.*
- **pollinarius*. Tufted, grey, glabrous, somewhat pitted; segments flattish, jagged-lacinate, mealy on one side: shields nearly terminal, sessile, white, greenish underneath and on the inflected margin. *Vill. Par. t. 20. f. 15.*
- **polymorphus*. Tufted, yellowish, glabrous, lacinate-branched, flat compressed or roundish; longitudinal pits and elliptic warts scattered and terminal: shields flat, terminal, yellowish. *AA. St. 5. t. 11. f. 3.*
2. *ligularis*. Segments erect, flat, linear lanceolate, nearly simple: warts scattered, lateral and marginal, elliptic, yellowish. *AA. Stock. 5. t. 11. f. 3. A. B.*
3. *fabellulatus*. Segments, erect, flat, dilated upwards, cut, tooth-crenate, with linear pits. *Act. Stock. f. 3. K.*
4. *strepilis*. Segments depressed, glabrous, naked, flattish, broader outwards, imbricate, sinuate lobed, cut, obtuse; the extreme margin raised curled and mealy. *Act. St. f. 3. G. H.*
5. *tinctorius*. Segments diffuse, ascending, nearly linear, plano-compressed, linear pitted, slightly divided, broken, jagged at top, mealy: tubercles minute, scattered and terminal, nearly globular. *AA. St. f. 3. L—O. V—Z.*
6. *emplexus*. Segments erect, much branched, nearly cylindrical: branches very thin, implicate, rough-mealy, pointed. *Act. St. f. 3. P. Q.*
- **chrysophthalmus*. Tufted, orange-yellow, glabrous, jagged-divided and ciliate; segments erect, flat, nearly linear: shields terminal, orange, radiate. *Eng. Bot. t. 1088.*
- **vulpinus*. Tufted, citron-green, a little angular compressed, pitted, unequal, branched; segments rather erect, taper, somewhat flat-topped: shields nearly terminal, rufous-brown, with an inflected margin. *Fl. Dan. 226.*
- **flavicans*. Tufted, glabrous, fulvous, branched; segments linear, compressed, somewhat angular, flexuous, diffuse, taper: shields scattered, nearly sessile, flat, orange, with a thin entire paler margin.
- **capensis*. Tufted, yellowish, glabrous, fibrous-branched: segments diffuse, cylindrical, capillary at top: shields scattered, concave, fulvous, the margin at length ciliate. *Hoffm. t. 9. f. 2.*
- **ephebeus*. Membranous, tufted, grey, pubescent, branched: segments cylindrical, filiform-taper.
1. *Fronde filamentous, somewhat cartilaginous, branched; filaments nearly cylindrical, pendulous or diffuse. Tricharia.*

divaricatus. Somewhat crustaceous, filamentous, compressed, pitted-rugged, rather jointed, ochraceous; filaments pendulous, divaricate: shields red, beneath and on the crenulate margin ochraceous. *Dill.* 12. 5.

asneoides. Cartilaginous, glabrous, compressed, pale; filaments pendulous, somewhat fibrous, taper: shields marginal, slightly pedicelled, flat, pale; with a thin entire margin. *Dill.* 84. 10.

sarmentosus. Cartilaginous, nearly cylindrical, unevenly pitted, somewhat fistular, pale: filaments forked, much branched and capillary at the ends: shields scattered, sessile, rather concave, with a pale entire margin. *Hoffm. t.* 72.

* *ochroleucus*. Cartilaginous, cylindrical, nearly solid, somewhat tufted, pale; filaments taper, divaricate, flexuous branched, interwoven, forked at the ends: shields nearly sessile, brown, the margin at length flexuous pale. *Hoffm. t.* 26. f. 2.

* *jubatus*. Cartilaginous, smooth, rather polished, cylindrical, grey and black; filaments much branched, forked, filiform, the lower axils compressed: shields sessile, becoming convex, grey and black, with an entire margin. *Dill.* 12. 7.

2. *capillaris*. Filaments pendulous, much branched, divaricate, interwoven, very tender, yellowish, a little compressed at the axils: shields pale brown.

3. *implexus*. Filaments prostrate, divaricate, long, quite simple, blackish brown.

* 4. *chalybeiformis*. Filaments decumbent, shorter, vaguely branched, rigid, flexuous, interwoven, twisted, pitchy-black. *Dill. t.* 13 f. 10.

* *Rochella*. Cartilaginous, glaucous-grey, cylindrical, slightly branched; filaments nearly erect, almost simple, filiform: shields scattered, glaucous, pruinous, at length convex glabrous black, with a thin glaucous grey margin. *Eng Bot.* 211. Orchall.

15. *Fronde leafy, membranous or somewhat coriaceous, lobed; bearing membranous sessile flat orbicular shields on the upper surface, and mealy shields like white or yellowish pits among the down on the under surface.* *Sticta*.

filicinus. Membranous, sinuate-lacinate, crenate, the larger segments narrowed at the base and slightly channelled, glaucous-green, nearly naked with pale pits beneath: shields scattered, red, becoming a little convex and brown, with an entire glaucous-green margin. *Hoff. t.* 55. f. 1.

lamacornis. Membranous, ascending, linear-lacinate, cloven at the tips, green-chestnut, villous-brown with pale pits beneath: shields flat, marginal, rufous, with a pale margin when young. *Dill.* 29. 115.

cometius. Somewhat coriaceous, greenish-white, sinuate-lobed, ciliate, woolly underneath; pits white, with an inflected entire margin: shields nearly marginal, appressed, rufous, with a radiate-ciliate margin. *Achar. t.* 5. f. 1.

- *crocatus*. Somewhat coriaceous, a little depressed, rounded-lobed, pitted, glaucous-brown, with a citron-mealy margin and tubercles, pits underneath citron: shields black-brown, with a glaucous-brown margin. *Dicks.*
- *auratus*. Somewhat coriaceous ascending, reddish-glaucous, sinuate, with a yellow mealy undulate margin and tubercles: pits beneath yellow. *Dill.* 84. 12.
- *orymaeus*. Cartilagino-membranous, expanded, rugged-pitted, yellowish-glaucous, with a rounded-lobed crenate slightly curled naked margin, beneath yellowish-brown villous with yellow pits: shields lateral, black, with a raised crenate brown margin.
- *gilvus*. Somewhat membranous, a little pitted, glaucous-brown, cut-lobed, with oblong repand crenate segments naked at the margin, rusty-brown villous beneath with yellow pits: shields lateral, black-brown, with a very thin rufous entire margin.
- tomentosus*. Membranous, depressed, nearly orbicular, quite smooth, glaucous, cut, lobed, with cloven segments undulate slightly crenate and naked at the margin, beneath brown-villous with margined palish pits: shields scattered, dull-brown, with a pale entire margin.
- laciniatus*. Somewhat coriaceous, depressed, quite smooth, green-chestnut, cut, lobed, with rounded irregular repand-crenate flexuous segments, beneath brown-downy with pale yellowish pits erect on the margin: shields scattered, black-brown, with a tumid black-brown margin.
- dissectus*. Somewhat cartilaginous: rigid, depressed, whitish-glaucous, sinuate, lobed, cut, the extreme segments rounded and lacero-crenulate, beneath whitish brown villous-veined with whitish pits: shields scattered, raised, rufous, with a thin inflected slightly crenate margin.
- anthraspis*. Membrano-cartilaginous, rounded-lobed, pitted-reticulate, greenish-grey, nearly naked and a little rugged beneath with minute white pits: shields lateral; becoming convex, black, with a greenish-grey margin on the younger.
- *limbatus*. Membranous, rather depressed, glaucous-brown, rounded-lobed, grey and powdery towards the margin, spongy underneath with whitish cups: shields dull ferruginous. *Eng. Bot. t.* 1104.
- *fuliginosus*. Membranous, depressed, dark greenish-grey, rough with brown granulations, sinuate-lobed, yellow-ferruginous and villous beneath with whitish pits: shields lateral, scattered, red-brown with a paler margin. *Engl. Bot. t.* 1103.
- *sylvaticus*. Membranous, ascending, glaucous-brown, somewhat pitted, cut-lobed, ferruginous-brown and villous beneath with white pits: shields nearly marginal, ascending, brown.
Dill. 27. 101.

16. *Shields thin, membranous, sessile, generally flat, closely attached by their margins to the frond: frond leathery or membranous, mostly with downy or fibrous veins underneath: the fertile-lobes long, ascending, and naked beneath. Peltidea.*

**venosus*. Grey, white underneath with grey-brown downy veins: lobes roundish, divergent: shields anterior, marginal, horizontal, round, brown. *E. Bot.* 887.

**spurius*. Expanded, digitate-lobed, cinereous, naked whitish with indistinct veins beneath: shields anterior, ascending, roundish, dark red brown. *Eng. Bot.* 1542.

**caninus*. Expanded, greyish; whiter with brownish veins and fibres beneath; lobes oblong, large, broader outwards; fertile-ones scattered, marginal, narrow: shields perpendicular, revolute, roundish, anterior, tawny-rufous. *For. Dan. t.* 767. 2.

**hymeninus*. Expanded, glabrous, glaucous-greenish, with grey veins and brown fibres beneath; lobes rounded cut-laciniate, the segments ascending flexuous-curved and bearing the shields at the margin: shields anterior, nearly solitary, ascending, round, rufous-brown.

**rufescens*. Expanded, pale rufous, nearly veinless reticulate with black and fibrous beneath; lobes deeply cut, sinuate, rounded, inflected and curled at the margin, fertile-ones marginal shorter: shields ascending, revolute, roundish, anterior, black-brown. *Dill. t.* 27. 103.

2. *collinus*. Brownish-grey, with black downy veins beneath; lobes oblong, sinuate-lobed, fertile-ones marginal very short: shields transversely oblong, a little revolute, rufous-brown.

**scutatus*. Expanded, grey, naked and veinless beneath; lobes rounded, sinuate-cut, curled at the margin: shields marginal, orbicular, ascending, anterior, pale rufous.

**polydactylos*. Expanded, glabrous, glaucous-greenish, veined with brown fibres beneath; lobes rounded, digitate, fertile-ones marginal long crowded, taper: shields anterior, roundish, revolute, ascending, black-brown. *Dill.* 28. 107.

2. *pellucidus*. Membranous, nearly transparent: fertile lobes mostly in pairs, ascending. *Dill.* 28. 108.

**chlorophyllus*. Expanded, smoothish, palish-white and veined beneath, ascending and curled at the margin: shields reddish.

**aphthosus*. Expanded, glabrous, green with brown warts, nearly veinless with black fibres and a blueish black stripe beneath; lobes lax, rounded, fertile-ones marginal scattered narrow: shields anterior, ascending, round, red. *Eng. Bot. t.* 1119.

**horizontalis*. Expanded, glabrous, glaucous-greenish, black-brown reticulate with veins beneath; lobes oblong, rounded, fertile-ones marginal short depressed: shields anterior, horizontal, transversely oblong, rufous-brown. *Eng. Bot.* 888.

- polaris*. Greenish-white, beneath naked, veinless, blackish and slightly villous at the base; lobes rounded, flexuous-undulate, fertile-ones ascending: shields posterior, kidney-form, large, scarlet. *Jacq. Misc. t. 10. f. 1.*
- **resupinatus*. Greenish lead colour; beneath hairy, palish, veinless; lobes cut rounded, complicate, a little curled, fertile-ones very short, ascending: shields posterior, kidney-form, rufous. *Eng. Bot. t. 305.*
- parilis*. Membranous, somewhat stellate, greenish-brown, beneath veinless naked black-brown; lobes cut, laciniate, rounded-crenate undulate, fertile-ones very short: shields posterior, transversely oblong, ascending, bay.
- cellulosus?* Expanded, greenish, reticulate cellular, white veinless and blistered beneath: shields posterior, nearly marginal, red.
- **croceus*. Decumbent, cinnamon, villous-veined and saffron beneath; lobes divergent, roundish, narrow at the base, a little cut at the margin: shields anterior, nearly marginal and lateral, tumid, tawny. *E. Bot. t. 498.*
- **saccatus*. Nearly orbicular, greenish-grey, white with brown fibres beneath; lobes somewhat imbricate, cut, rounded, slightly crenate: shields anterior, lateral, scattered, sunk in the pits of the frond, black-brown. *Eng. Bot. t. 288.*
- esulentus?* White, wrinkled and greyish outwardly: shields a little prominent, immersed, hollow. *Pall. it. t. 1. f. 4.*
- velleiformis*. Membranous, peltate, hairy beneath: shields immersed, pouched beneath.
17. *Shields flat, sessile, not attached to the frond by their margins: frond leafy, membrano-cartilaginous, lobed, rigid, glabrous, naked both sides. Cetraria.*
- **islandicus* Greenish-chestnut, sinuate laciniate, many-cleft, segments ascending, channelled, ciliate: shields nearly marginal, chestnut, slightly margined. *Eng. Bot. t. 1350.*
- cucullatus*. White, yellowish-green, erect, tubular-channelled, irregularly laciniate-branched; fertile segments broader and somewhat hooded: shields nearly marginal, brownish flesh-colour, with a nearly entire margin. *Trans. Linn. Soc. 1. t. 4 f. 7.*
2. *niphargus*. Snowy, erect, channelled, cut, laciniate-lobed, the whole margin flexuous-curved and crenulate, purplish-olive at the base.
3. *tapeinus*. Palish-white, erect, channelled, laciniate upwards, the whole margin flexuous curved, the same colour at the base.
- **nivalis*. Membranous, pitted, white yellowish at the base; segments flattish, jagged-laciniate, many-cleft, curled, crenate: shields marginal, a little concave, flesh-colour, with a crenulate border. *Dill. 21. 56. A.*
2. *Linneanus*. Entirely white: shields nearly marginal, red, with an entire border. *Flor. Lapp. t. 11. f. 1.*

lacunofus. Expanded, rounded-lobed, becoming vaguely laciniate, rugged-reticulate, cellular, white-greenish: shields raised, nearly marginal, a little tumid, rufous, with a thin nearly entire border. *Achar. t. 5. f. 3.*

**fallax*. Grey, beneath white a little spotted with black, cut, lobed; segments flat, diffuse, complicated, jagged-curved: shields raised, marginal, tawny. *Dill. 22. 58.*

**glaucus*. Membranous, glaucous, black beneath, sinuate-lobed; segments flattish, depressed, complicated, ascending, jagged-lacinate and curled on the margin: shields rufous-brown.

Moris. 3. t. 7. f. 4.

**sepincola*. Membranous, chestnut, paler beneath, vaguely lobed; segments flat, ascending, slightly crenate: shields raised, nearly marginal, chestnut, with a thin rugged-crenulate border.

Hoffm. t. 17. f. 1.

2. *ulophyllus*. Brown-grey, paler beneath, sinuate lobed: segments flat, ascending, jagged lacinate, with eroded-raised curled mealy margins: shields bay, with a crenulate border. *Hoffm. t. 14. f. 1.*

juniperinus. Membranous, pale yellow, deep yellow beneath, jagged-lacinate; segments flat, ascending, complicate, eroded crenate, curled, naked: shields raised, nearly marginal, bay, with a thin yellow crenulate border. *Hoffm. t. 7. f. 2.*

*2. *Pinastri*. Yellow, depressed, sinuate-lobed; segments with raised flexuous-curved mealy deep yellow margins: shields nearly marginal, bay, with a yellow scaly-crenulate border. *Hoffm. t. 7. f. 2.*

18. Shields terminal, flat, peltate, cartilaginous, becoming irregular and a little convex with the margin reflected: frond cartilaginous, rigid, nearly solid, spongy within, in shrub-like tufts, with acute branches. *Cornicularia.*

**tristis*. Blackish brown; branches cylindrico compressed, ascending, flat-topped, darker above: shields black-brown, becoming convex, slightly radiate. *Eng. Bot. t. 720.*

**spadiceus*. Chestnut-brown; branches plano-compressed, slightly pitted, flexuous, denticulate: shields spinous-radiate, becoming convex, rufous brown. *E. Bot. 452.*

2. *odontellus*. A little compressed; black, much branched; thinner-branches flexuous-complicate, spinous-toothed, curled. *Dill. t. 17. f. 31. A*

muricatus. Erect, black; branches short, cylindrical, rigid, flexuous, prickly, forked: shields radiate, becoming convex, large, unequal and black-brown. *Achar. t. 6. f. 2.*

**aculeatus*. Chestnut-brown; branches short, crowded, spreading flexuous, implicate, angular, naked, very short and tooth-spinous at top: shields becoming convex, chestnut-brown.

Vail. Par. t. 26. f. 8.

- divergens*. Effuse, chestnut-brown; branches a little compressed, somewhat angular, roughish, long, lax, divergent, flexuous, forked, taper, with long furcations at their tips. *Achar. t. 6. f. 1.*
- bicolor*. Erect, cylindrical, black, fulvous-branched; branchlets spread, divaricate, scattered, short, nodding, capillary and grey brown at their tips. *Aët. Stock. 5. t. 4. f. 6.*
- **lanatus*. Decumbent, warty, brownish-black, much branched; branches cylindrical, intricate, short, repeatedly forked: shields black-brown, with a granular-radiate margin. *Eng. Bot. t. 846.*
- **pubescens*. Decumbent, black, annulate, roughish, branched; branches intricate, cylindrical, the outer-ones simple: shields black, with an entire margin. *Jacq. Misc. 2. t. 10 f. 5.*
19. Shields somewhat coriaceous, flat, much dilated, peltate, glabrous both sides, often radiate: tubercles sessile, lateral: frond branched; filaments rough, covered with a crustaceous bark, and furnished with an elastic central thread. *Usnea.*
- melaxanthus*. Erect, rough, dirty-orange; branches divaricate, simple at the tips, black: shields black, beneath dirty-orange and reticulate-rough, with a thin yellowish naked entire margin. *Jacq. Misc. 2. t. 11. f. 2.*
- **floridus*. Erect, cylindrical, rough, greenish grey, with horizontal fibres; branches scattered, somewhat flat-topped, nearly simple: shields terminal, large, greenish-white, radiate: warts pale reddish yellow. *E. Bot. 872.*
- *2. *hirtus*. Greenish-grey; branches crowded, taper, fibrillous, mealy-roughish: shields minute, white, radiate: tubercles pale reddish-yellow. *E. Bot. t. 1354.*
3. *strigosus*. Branches scattered, short, rigid, every where much crowded, strigose; shields very broad, pale flesh-colour; slightly lobed, tooth-radiate. *Achar. t. 6. f. 3.*
4. *Cinerea*. Much branched, fulvous. *Bot. Mag. 4. t. 2. f. 3.*
- **plicatus*. Palish-white, pendulous, cylindrical; filaments long, branched, filiform, intricate: shields greenish-white, radiate with fibres: tubercles yellowish. *E. Bot. 257.*
2. *comosus*. Erect, pale yellowish, much branched; branches expanded, filiform and nodding at top: tubercles scattered, pale flesh-colour, becoming convex unequal and brownish. *Aët. St. 5. t. 8. f. 1.*
3. *dasyopogon*. Cylindrical, pendulous, pale greenish; filaments long filiform, with short spreading fibres: tubercles minute, scattered, sessile, flesh-colour, becoming convex and blackish-brown.
- trichodeus*. Very tender, filamentous, cylindrical, diffuse, palish-white; filaments capillary, branched, with the fibres mostly leaning one way: shields palish-white, with a thin inflexed naked entire margin. *Achar. t. 8. f. 1.*
- **barbatus*. Filamentous, cylindrical, pendulous, greenish-white; filaments filiform, forked-branched, long, somewhat jointed, here and there fibrous: tubercles scattered, small, flesh-colour, *Eng. Bot. t. 258. f. 2.*

* *2. articulatus*. Pendulous, greyish-white; filaments long, moniliform-jointed, branched-fibrous: tubercles scattered, roundish, pale rufous.

Eng. Bot. 258. f. 1.

20. *Tubercles sessile, terminal and scattered, somewhat turbinate, at first margined, at length convex, covered with a membrane: frond solid, rather woody, caulescent, branched, roughish and fibrous.*
Stereocaulon.

ramulosus. Shrubby, rough, fibrous, pale; branches vague, diffuse, nearly simple: tubercles scattered and terminal, nearly globular, black-brown.

* *paschalis*. Brittle, shrubby, greenish-grey, scaly-granular; branches short, crowded: tubercles flattish, turbinate, scattered, lateral and terminal, at length clustered and convex, olive-brown.

Eng. Bot. 282.

nanus. Slender, tufted, greyish-white, blackish at the base; branches short, somewhat flat-topped, floccular-mealy: tubercles lateral, crowded, convex, black-brown. *Mich. gen. t.* 53. f. 8.

Cereolus. Brittle, simple, roughish, powdery, thickened upwards, grey: tubercles terminal, solitary, turbinate, becoming convex, blackish-brown. *Achar. t.* 7. f. 1.

condyloideus. Naked, grey, branches flexuous, deformed, slightly lobed, nodular.

tabularis. Tufted, grey-pale, unequal, a little rugged, warty-branched; branches short, divaricate, twisted, intricate, thicker outwards. *Achar. t.* 7. f. 3.

condensatus. Shrubby, leafy; branches short, condensed: tubercles scattered, turbinate, black.

obtusatus? Naked, with cylindrical equal obtuse branches: tubercles terminal, black with a grey margin.

Flor. Dan. t. 1126. f. 1.

Sertularia. White, many-cleft, ferruginous at the base.

21. *Tubercles terminal, mostly on pedicels, becoming convex or cup-like, simple or clustered, covered with a thin solid membrane: frond crustaceous or leafy.* *Bæomices*.

a. *Crustaceous, nearly uniform: tubercles on short solid cylindrical simple softer stalks.* *Pordenium*.

fungoides. Effuse, leprous, unequal, white: stalks long, thickened at the base and top, white: tubercles simple, hemispherical, deformed, white-flesh-colour.

* *roseus*. Thin, leprous, a little granular, greyish-white: stalks very short, cylindrical, white: tubercles simple, flattish, becoming tumid and lobed, flesh-colour. *E. Bot.* 374.

* *rupestris*. Effuse, rugged-granular, mealy, white greenish-grey: stalks a little compressed, white: tubercles rather convex, rufous-brown. *Dill. t.* 14. f. 4.

- *2. *byssoides*. Greenish-grey, mealy: stalks white, compressed, dilated upwards: tubercles globular, becoming clustered, brown. *E. Bot.* 373.
- 3. *Lignorum*. Tartareous, granular-cracked, dirty grey-glaucous: stalks short, compressed, broader upwards, whitish: tubercles convex, mostly simple, blackish-brown.
- *4. *rufus*. Leprous, granular, greenish-grey; stalks greenish-grey, very short, cylindrical: tubercles small, mostly simple, flattish, pale rufous.
- 5. *Sabuletorum*. Leprous, greenish; stalks very short: tubercles nearly sessile, flattish, black.
- placophyllus*. Greenish-glaucous, rugged-plaited, orbicular, with a leafy rounded-lobed crenate circumference: stalks thick, compressed, greenish-glaucous: tubercles simple, flattish, dull brown. *Achar. t. 7. f. 4.*
- b. *Crustaceus, effuse: tubercles on fistular inflated mostly simple brittle stalks.* *Pycnothele.*
- solecinus*. Granular-lobed, mouse-colour: stalks cylindrico-inflated, granular, simple, greyish-white: tubercles solitary, rufous-brown. *Achar. t. 7. f. 2.*
- c. *Foliaceous, cartilagino-crustaceous, lobed: tubercles sessile on the frond or nearly so.* *Phyllocarpon.*
- rubiformis*. Segments of the lobes roundish, crenate, pale greenish-brown, whitish beneath and on the margin: tubercles sessile, small, globular, black-brown. *Ach. t. 7. f. 3.*
- arepilis*. Pale-greenish, pure white and pitted beneath: segments erect, crowded, linear, many-cleft, curled and incurved at top: tubercles marginal and terminal, nearly globular, small, clustered, nearly sessile, brown.
- epiphyllus*. Segments cut-crenate, ascending, somewhat imbricate, greenish-brown, pure white and a little mealy beneath: tubercles sessile, nearly simple, at length clustered, black-brown.
- cæspiticus*. Segments pinnatifid-cut, jagged-curved, rich green, white beneath: tubercles nearly sessile, clustered, a little rugged, rufous.
- d. *Foliaceous, cartilagino-crustaceous, imbricate: tubercles on long cylindrical mostly solid stalks, which are simple or divided at top.* *Helopodium.*
- symphyrcarpus*. Segments cut-crenate, grey greenish-brown, white beneath: stalks short, the colour of the frond, a little pervious and slightly branched at top: tubercles crowded, brown. *Hoffm. t. 8. f. 4.*
- cariosus*. Segments minute, cut-crenate, whitish-green: stalks carious, cancelled, rough, whitish-green, a little pervious and branched at top: tubercles crowded, purplish-black. *Ast. Stock. 5. t. 4. f. 4.*
- botrytes*. Segments cut-crenate, pale greenish: stalks fistular, palish, rugged-granular, branched at top: tubercles rather distinct, brownish yellow. *Jacq. coll. 4. t. 4. f. 3.*

delicatus. Segments very minute, linear-many-cleft, curled, petioled, rather erect, mealy, white: stems filiform, naked, simple and somewhat divided: tubercles clustered, pale brown, becoming black.

**Papillaria*. Lobes very minute, rounded-crenate, greenish-grey: stalks fistular, inflated, simple or slightly divided, greenish-grey: tubercles simple, red-brown. *Eng. Bot. t. 907*.

acicularis. Stalks erect, rigid, rough, fistular, simple and branched, greyish-white: tubercles nearly globular, solitary, black.
Achar. t. 8. f. 4.

c. *Foliaceous, cartilagino-crustaceous, imbricate: stalks fistular, cupped at top. Scyphophoron.*

**bacillaris*. Segments in many sinuate-crenate divisions; stems filiform, greyish-white; cups nearly cylindrical, minute, entire, closed or none: tubercles scarlet. *Dill. 14. 10.*

2. *brachytes*. Lobes rounded: stems short, simple, all cup-bearing, white: cups complete, closed; heads marginal, sessile, very minute, scarlet.

3. *stryacellus*. Stems filiform-taper, quite simple, white, cups terminal, very small.

4. *macilentus*. Stems greyish, short, filiform, simple and divided; tubercles terminal, scarlet: cups hardly any.

5. *apoleptus*. Stems white, long, filiform, simple; cups obsolete: tubercles marginal and terminal, bay, becoming black-brown. *Achar. 7. 6.*

monocarpus. Lobes cut-crenate: stems long, cylindrical, dilated at the base and top, white and semitransparent: cups obsolete: tubercle solitary, scarlet.

**cocciferus*. Lobes cut-crenate; stems short, obconic, greenish-grey; cups dilated, entire, closed: tubercles marginal, nearly sessile, larger, scarlet. *Dill. t. 14. 7. A-D.*

2. *extensus*. Stems longer, thickened upwards; cups prolifero-radiate at the margin and crowned with new ones. *Dill. 14. 7. F—I.*

3. *afotens*. Stems cylindrical, dilated upwards; cups multiplied over each other from the diaphragm; the terminal ones crowded on the margin with minute tubercles. *Dill. 14. 7. M.*

4. *polycephalus*. Stems thick, short, obconic, scaly; cups dilated, simple and proliferous, clothed with larger clustered scarlet heads. *Dill. 14. 7. K.L.*

**cornucopioides*. Lobes cut-crenate: stems short, obconic, grey; cups turbinate, closed, leafy-crested and proliferous from the diaphragm and margin: tubercles pedicelled, marginal, scarlet, becoming chestnut. *Dill. 14. 9.*

**digitatus*. Lobes cut-crenate: stems cylindrical, slightly divided, grey-pale; cups obsolete, digitate-radiate: tubercles terminal, scarlet. *Dill. t. 15. 19. A. B.*

2. *coronatus*. Stems thinner, branched, digitate-radiate at top: tubercles terminal, globular, scarlet. *Dill. 15. 19. C.*

- **deformis*. Lobes cut-crenate: stems long, thick, a little inflated, pale yellowish-grey; cups irregular, denticulate, closed, becoming pervious: tubercles marginal, scarlet. *Engl. Bot. t. 1394.*
- 2. *crenulatus*. Stems cylindrical, white: cups closed, with a crenate margin: tubercles very minute, scarlet.
- 3. *clavatus*. Stems thick, inflated, white, barren or indistinctly cup-bearing. *Dill. 15. 14.*
- 4. *gonechus*. Stems cylindrico-inflated; cups dilated, mostly pervious, irregular, jagged at the margin, cup-bearing: tubercles sessile, larger, rather clustered, rufous-brown.
- bellidiflorus*. Lobes minute, cut-crenate: stems long, cylindrical, slightly branched, rough, pale-greenish; cups terminal, clavate, closed: tubercles marginal, globular, very minute, much crowded, scarlet. *Aët. Stock. 5. t. 4. f. 1.*
- cervicornis*. Lobes erect, jagged-laciniate, many-cleft, rather linear, blueish-green: stems cylindrical, short, blueish-green; cups minute, turbinate, closed: tubercles globular, marginal, sessile, black-brown. *Aët. Stock. 5. t. 4. f. 3.*
- Pocillum*. Lobes cut-crenate: stems short, thick, nearly cylindrical, greenish-blue, warty, mealy; cups cylindrical, closed, slightly crenate: tubercles marginal, sessile: minute, brown, becoming black. *Achar. t. 8. f. 6.*
- **pyxidatus*. Lobes cut-crenate: stems short: obconic; cups dilated, glass-shaped, closed, entire: tubercles marginal, dark-brown. *Eng. Bot. t. 1393.*
- 2. *exilis*. Stems very short; cups nearly sessile, minute, with a brown diaphragm; tubercles very minute, marginal, sessile. *Dill. 14. 11.*
- 3. *macroscyphus*. Stems short, nearly cylindrical at the base; cups dilated, very large, campanulate, hoary: tubercles very minute, marginal, sessile. *Dill. 14. 6. B.*
- 4. *tuberculatus*. Stems gradually thickened upwards: tubercles brown, marginal and terminal, sessile and raised. *Dill. 14. 6. C.*
- 5. *marginalis*. Stems short, cups dilated, proliferous and cup-bearing at the margin: tubercles sessile, marginal and terminal. *Dill. 14. 6. I.*
- 6. *apoticus*. Stems thickened upwards; cups from the centre of the diaphragm and margin, aggregate-proliferous. *Vaill. t. 21. 9.*
- 7. *staphylleus*. Stems thickened upwards: tubercles racemed.
- turbinatus*. Lobes cut-crenate: stems long, cylindrical; cups dilated; closed, finely denticulate, with a flattish diaphragm: tubercles marginal, sessile, brown. *Ach. t. 7: f. 6. D. E.*
- 2. *Fibula*. Stems long, cylindrical, erect, naked and scaly; cup simple, nearly covered with clustered sessile tubercles. *Dill. 15. 15. A. B.*
- 3. *verticillatus*. Stems gradually thickened, turbinate, greyish; cups from the centre of the diaphragm, proliferous 2—4-fold: tubercles marginal, sessile. *Dill. 14. 6. D. H.*
- 4. *euphoreus*. Stems long, pale-greenish, naked; cups radiate-proliferous: tubercles pedicelled, larger, rufous-brown.

5. *gerontius*. Stems unequal, thick, inflated-clavate, and with the deformed cups scaly, proliferous-luxuriant: tubercles clustered, sessile.
6. *crispatus*. Stems much crowded, flexuous; cups obsolete, branch-crested, denticulate, nearly barren.
- **fimbriatus*. Lobes cut-crenate: stems cylindrical, white, dilated upwards into a glass-shaped closed cup serrate-toothed on the margin: tubercles on the teeth, nearly globular, minute, brown.
Dill. 14. 8. *B.*
2. *juncus*. Stems long, rather filiform, scaly: cups cylindrical.
Dill. 1. 14. 8. *A.*
3. *synketus*. Stems obconic; cups proliferous 2 or 3-fold, with nearly barren marginal denticles. *Dill.* 14. 8. *C.*
- **radiatus*. Lobes cut-crenate: stems long, cylindrical, greenish-white, mealy; cups irregular, rather pervious, digitate-radiate: tubercles terminal, brown. *Dill.* 15. 16. *A. B. D—F.*
2. *nemoxynus*. Stems long, filiform, branched, pointed, barren and fertile; cups hardly any; heads terminal, minute, pedicelled, clustered.
Dill. 15. 16. *C.*
3. *actinotus*. Stems thicker, scaly: cups stellate-radiate, with spread jagged flexuous barren rays. *Dill.* 15. 16. *G.*
- **cornutus*. Lobes cut-crenate: stems long, simple, a little inflated, pointed, barren and cup-bearing; cups cylindrical, closed, nearly entire: tubercles minute, marginal, sessile, brown.
Dill. 15. 14. *A.*
2. *probovicalis*. Stems cylindrical, erect and curved, nearly simple, obscurely cup-bearing at top, generally scaly and bristly.
Dill. 15. 14. *C. F.*
- **gracilis*. Lobes cut-crenate: stems long, filiform, pointed, barren and cup-bearing; cups glass-shaped, closed, subulate-denticulate: tubercles pedicelled, brown. *Eng Bot.* 1248.
2. *hybridus*. Stems long, filiform, nearly simple; cups large, with a concave diaphragm, subulate-radiate on the margin, proliferous and cup-bearing: tubercles terminal, red-brown. *Dill.* 14. 13. *A. B.*
3. *cladonioides*. Stems filiform, a little fork-branched; cups minute, nearly obsolete, radiate: tubercles very minute, nearly globular, terminal, brown.
Dill. 14. 13. *E.*
- elongatus*. Lobes cut-crenate: stems cylindrical, very long, nearly simple, white-grey; cups obsolete, subulate-denticulate: tubercles brown. *Jacq. Misc.* 2. t. 11. f. 1.
- cenoteus*. Lobes cut-crenate: stems a little inflated, white, mealy, becoming proliferous-branched; cups minute, pervious, irregular, cylindrical, acutely denticulate, brown within; denticles and very minute tubercles black-brown. *Achar. t.* 7. 7.
- sparassus*. Lobes cut-crenate: stems cylindrical, grey, scaly-rough, branched, rigid; cups minute, denticulate, mostly pervious, repeatedly cup-bearing on the margin; tubercles on the fertile-cups clustered, brown.

- *2. *ventricosus*. Segments deeply cut and crenate: stems erect, rigid, inflated, grey, scaly-roughish; cups obsolete, pervious, radiate-branched: tubercles terminal, pale brown. *Dill* 15 17.
3. *blasticus*. Stems cylindrical, palish white, roughish, slightly branched at top: tubercles terminal, larger, clustered, pale-brown: cups hardly any.
- trachynus*. Lobes cut-crenate; stems erect, cylindrical, branched, rigid, nearly naked, grey; cups minute, closed, the terminal-ones fringe radiate at the margin: tubercles very minute, slightly pedicelled, black brown.
2. *pleolepis*. Stems grey brownish, rigid, scaly, short; cups irregular, jagged-curved, vaguely branched and proliferous from the margin, nearly barren.
- anomus*. Lobes minute, crenate: stems cylindrical, grey, rough: cups cylindrical, somewhat turbinate, closed, with an entire contracted margin, becoming dilated and radiate: tubercles sessile and terminal, blackish brown. *Dill* 15 20.
- **alcicornis*. Lobes rather erect, sinuate-lobed, obtuse: stems leafy all over, short; cups minute, turbinate: tubercles marginal, nearly sessile, blackish-brown. *Eng. Bot.* 1392.
2. *cladomorphus*. Stems fork branched, from the proles of the evanescent cups; branches expanded, cylindrical, somewhat scaly, radiate branched at top: tubercles minute, capitate, brown. *Dill* 14. 12. B.
3. *phyllophorus*. Stems erect, with lacinate cup-bearing scales above. *Vaill. Par.* 1. 21. 3.
- parechus*. Lobes rather erect, deeply many-cleft, somewhat pinnate, narrowed: cups suprafoliaceous, turbinate, lacerate-toothed: stems becoming branched, thick, inflated; branches very short, projecting, denticulate at top: tubercles clustered, bay. *Aët. Stock.* 5. t. 4. f. 2.
- **endivifolius*. Segments cut-pinnatifid, twisted, slightly curled: stems suprafoliaceous, minute, cup bearing; cups turbinate, nearly simple: tubercles marginal, sessile, rufous. *Mich. Gen.* 1. 42 f. 3
- ceratophyllus*. Lobes rather erect, cut, obtuse, pale-greenish: stems suprafoliaceous, simple, pointed, white.
- f. *Foliaceous, cartilagino-crustaceous, evanescent: stems mostly fistular, long, rigid, taper, shrubby-branched.* *Cladonia*.
- **strictoceros*. Much branched, solid and spongy within, compressed, wrinkled, pale sulphur; the terminal-ones often dotted with black: tubercles minute, convex, black. *E. Bot.* 1353.
- **uncialis*. Closely tufted, tubular, greenish-white; branches short; spread, radiate-stellate denticulate and perforated at top: tubercles small, globular, tawny. *Eng. Bot.* 174.
2. *dicæus*. Much crowded, erect, somewhat divided and nearly imperforate at top; branches erect, flat-topped, forked, pointed.

3. *attenuatus*. Stems erect, somewhat divided, scaly, dilated at the axils; branchlets forked, taper, somewhat cup-bearing at top, radiate. *Dill.* 16. 22. H.
- aduncus*. Scattered, tubular, hoary-pale, vaguely branched, radiately hook-spinous and perforated at the tips and axils; tubercles on the terminal spines, pale rufous. *Dill.* 16. 21. A.
2. *griseus*. Palish white, branched, naked, with thickened internodes, perforated at the axils; branches nearly erect, flat-topped, lateral and terminal branchlets hook spinous: tubercles brownish. *Dill.* 16. 21. B.
- granoides*. Tubular, diffuse, brownish-grey; branches divaricate, naked, thickened above; branchlets flat-topped, truncate; axils perforated.
- **pungens*. Tubular, tufted, cylindrical, grey, forked, much branched, perforated at the axils; branches flexuously implicate, taper: tubercles minute, blackish-brown.
2. *niveus*. Crowded, nearly erect, flexuous, very brittle, cylindrical, pure white, imperforate, forked, much branched: tubercles very minute, black.
- spiculatus*. Crowded, erect, filiform, tubular, white, glabrous, forked-branched, yellowish, imperforate at the axils; branches subulate, simple.
- **aggregatus*. Crowded, erect, nearly cylindrical, tubular, flexuous, branched, yellowish, imperforate at the axils; branches scattered, ramulous, pointed: tubercles globular, clustered, black-brown.
- **rangiferinus*. Cylindrical, tubular, erect, much branched, greyish, perforated at the axils; branchlets recurved at their tips: tubercles 3 or 4 together, globular, red-brown. *Eng. Bot.* 173.
2. *alpestris*. Much branched, white; branchlets implicate concatenate; the axils becoming perforated and stellate-branched. *Dill.* 16. 29. E. F.
- *3. *sylvaticus*. Greyish-white, less branched, perforated at the axils; terminal-branchlets nearly erect, reddish at top, barren and fertile. *Dill.* 16. 30. B.
4. *racemosus*. Branched, perforated at the axils; branchlets erect, racemed: tubercles clustered, pale rufous.
- **furcatus*. Cylindrical, tubular, erect, taper, grey-brown; branches ascending, dichotomous and forked: tubercles dull brown. *Dill.* 16. 27.
2. *epermenus*. Erect, stiff, glabrous, grey; lateral branches short spread, ramulous; ultimate-ones cloven, very short, barren.
3. *recurvus*. Greenish-glaucous, scaly; branches and branchlets reflected, the ultimate-ones short. *Dill.* 16. 27. D.
- **subulatus*. Erect, tubular, taper, slightly divided; branches erect; simple, subulate, greenish-grey: tubercles bay. *Dill.* 16. 26.
- **spinosus*. Nearly cylindrical, tubular, grey-brown, vaguely branched; branches effuse, curved, flexuous, with spines pointing backwards; fertile-branchlets somewhat digitate, with brown tubercles. *Dill.* t. 16. 25.
2. *acanthinus*. Branches trifid; branchlets barren very short, flat-topped.
3. *palmæus*. Lateral branches curved, deflected, ascending, twisted dilated somewhat palmate and fertile at top. *Hag.* 2. 11.

**vermicularis*. Stems tubular, nearly filiform, subulate, almost simple, prostrate, pure white. *Dicks. t. 6. 10.*

2. *tanicus*. Tubular, long, a little inflated, pure white, slightly divided at top. *Hoffm. 34. 2.*

1939. ULVA. Frond membranaceous or gelatinous: fructification solitary or clustered, within the substance or under the cuticle of the whole frond.

A. Membranous.

**umbilicalis*. Orbicular, sessile, peltate, coriaceous, dull brown or purple. *Dill. 8. 3.*

**purpurea*. Oblong-lanceolate, flat, entire at the margin, undulate.

Roth. cat. bot. 1. t. 6. f. 1.

**plicata*. Elongated, plaited, laciniate, connected at the base, imbricate. *Flor. Dan. 829.*

**mesenteriformis*. Oblong, broad, plaited, undulate, pitted, rugged.

Roth. Germ.

**fusca*. Somewhat ensiform, flat, undulate, brown.

**lanceolata*. Tufted, lanceolate, flat, entire, tapering to both ends.

Dill. t. 9. f. 5.

**Laëuca*. Fronds many from the same base, distinct, oblong, flat, somewhat undulate, tapering below, dilated upwards, laciniate.

Eng. Bot. t. 1551. Laver.

**lancea*. Crowded, tufted, oblong, convolute, inflected, undulate, rugged, anastomosing, very thin, lubricous. *Dill. t. 8. 2.*

**terrestris*. Crowded, thin, expanded, decumbent, plaited-curved.

Dill. 10. 12.

**porosa*. Flat, kidney-form, tapering to the base, with transverse arched lines. *Eng. Bot. t. 1276.*

**squamaria*. Flat, kidney-form, concentrically striate transversely above and longitudinally beneath. *Gmel. t. 20. f. 1.*

**punctata*. Forked, transparent; segments broad, uniform, forked at top: fructification globular, sessile, in oblong spots over the whole frond. *Linn. Trans. 3. p. 236.*

**atomaria*. Flat, dilated, palmate, with linear slightly branched and mostly ciliate segments. *Eng. Bot. t. 419.*

**angulata*. Flat, dilated; branches somewhat forked, obtuse-angled, terminated and fringed with strap-shaped segments.

Eng. Bot. t. 420.

**corallina*. Roundish, sinuate, scarlet. *Huds.*

**lociniata*. Flat, roundish, deeply laciniate, undulate, purple.

Lightf. t. 33.

**dichotoma*. Flat, repeatedly forked, reticulate, green. *E. Bot. 774.*

**calendulifolia*. Somewhat stalked, black-green, rough above with irregular warts. *Dill. 9. 4.*

**Agarum*. Flat, perforated, orbicular, slightly toothed on the margin.

Gmel. fuc. t. 32.

clathrus. Flat, grooved, perforated, orbicular, entire on the margin.

Gmel. t. 33.

reticulata. Flat, reticulate, perforated; branches linear.

**linza*. Oblong, blistered, undulate, green. Dill. 9. 6.

labyrinthiformis. With labyrinthiform and prominent clavate cells.

Vandel. Therm. 120. t. 2.

**intestinalis*. Tubular, simple, green. Dill. 9. 7.

lumbricalis. Tubular, divided by partitions.

**compressa*. Tubular, branched, compressed. Dill. 10. 8.

rugosa. Tubular, branched, rugged. Mant. 3. 11.

B. More or less gelatinous.

**rubra*. Filiform, forked, red. Huds.

**filiformis*. Filiform, much branched, purplish; branches scattered, distant, very long. Huds.

**defracta*. Filiform, simple, diaphanous, viscid. With. t. 18.

**elminthoides*. Filiform, simple or slightly branched, rather obtuse, opaque. Velley 6. 7.

**verticillata*. Stem and primary branches equal, longer at the origin of the branches; terminal-branches numerous, equal, filled with whorls of fructification. Wither.

**diaphana*. Pale yellow, diaphanous, nearly cylindrical, with numerous branches. Eng. Bot. t. 263.

decorticata. Cylindrical, branched; branches somewhat dichotomous, tapering to the top, diffuse. Linn. Trans. 3. p. 55.

**purpurascens*. Tubular, branched, nearly cylindrical; branches nearly simple, acute. Eng. Bot. 640.

**fistulosa*. Tubular, uniform, simple, rather obtuse, a little flexuous, yellowish-brown. Eng. Bot. t. 642.

prolifera. Tubular, simple, cylindrical, a little compressed when old. Fl. Dan. t. 763. f. 1.

Priapus. Tubular, simple, cellular within, blistered without.

Gmel. t. 31. f. 2.

glandiformis. Tubular, simple, glabrous, entire, obtuse at both ends.

Gmel. fuc. p. 223.

**plumosa*? Filiform, brown-red, with linear-lanceolate pinnate branches. Huds.

**montana*? Flat, coriaceous, terrestrial, sanguineous. Huds.

1940. TREMELLA. Frond gelatinous, uniform, covered with a membranous integument, concealing the fructification.

mesenteriformis. Expanded, veined, bearing the fructification in the margin. Tode. fung. 1 t. 2. f. 12. Mesenterica.

stellata. Nearly ovate, quite simple: fructification translucent, in the form of a tailed star. Wulf. Jacq. Ulva.

- orygaformis*. Jointed, clustered, cohering. *Forsk.*
- moccana*. Ovate, compressed, with an oblong aperture at top.
- cuneata*. Imbricate; segments wedge-form, compressed, perforated at top, with a concave dilated border. *Forsk.*
- **granulata*. Globular, clustered, green, containing a fluid, with fibrous roots. *Eng. Bot. t. 324.*
- **utriculata*. Sessile, spread, with hollow tubercles. *Dill. tab. 10. 16*
- **Pisum*. Globular, solitary, spongy. *Fl. Dan. 660. 2.*
- globulosa*. Sphærical, scattered, with a flat surface, rich green. *Hedw. theor. t. 36. f. 1. 2.*
- moniliformis*. Globular, disposed in lines, pale green.
- cavernosa*. Nearly globular, solitary, rugged-plaited, cavernous within. *Forsk.*
- fucata*. Nearly globular and sessile, granular, scarlet. *Bull. Franc. 1. t. 455. f. 2.*
- **pruniformis*. Nearly globular, solitary, succulent within. *Weig. Obs. t. 2. f. 4.*
- **purpurea*. Nearly globular, sessile, solitary, smooth. *Dill. t. 18. 6.*
- **hemisphærica*. Hemisphærical, scattered, dotted, yellow-green. *Weig. Obs. t. 2. f. 3.*
- natans*. Roundish, scattered, with a flat surface, pruinous, dirty-green. *Hedw. theor. t. 36. f. 7.*
- punctiformis*. Dirty orange, sessile, consisting of irregular globules, *Schrank. Bav.*
- **adnata*. Round, imbricate, livid.
- **difformis*. Roundish, sinuate, deformed, dull green.
- **cornuta*. Rather rigid, horned, terrestrial. *Dill. t. 10. 13.*
- **incrassata*. Flat, sinuate-toothed, with a thickened margin, green. *Dill. 10. 16.*
- **arborea*. Roundish, circularly plaited, rough on the surface, blackish. *Dill. 10. 15.*
- stipitata*. Red, diaphanous, stipitate, cylindrical. *Hoffm. crypt. 1. t. 8. f. 1.*
- orbicularis*. Sessile, goblet-form, dirty green. *Schrank.*
- rufa*. Half funnel-form longitudinally. *Jacq. Misc. 1. t. 14.*
- meteorica*. Sinuate-gyrous, white, contracted by a membrane underneath. *Perseon.*
- vesicaria*. Grey-brown, membranous, pouched. *Bull. 427. f. 3.*
- clavariæformis*. Gregarious, simple, orange, compressed-subulate, somewhat pyramidal or 2-horned. *Wulf.*
- viridis*. Oblong convex, scattered, flat, rich green.
- lithophila*. Oblong-convex, scattered, flat, green, with a brownish disk. *Bot. Mag. 3. t. 4. f. 16. a. b.*
- sepincola*. Roundish, scattered, flat, saffron, diaphanous.
- **mesenterica*. Sessile, clustered, plaited, lobed, undulate, golden yellow. *Eng. Bot. 709.*

- **ferruginea*. Sessile, clustered, lobed, waved, rusty-brown, finely pubescent on the surface. *Eng Bot. t. 1452*.
- **Nostoc*. Sessile, roundish, plaited, waved, olive-green. *E. Bot. 461*.
- persistens*. Membranous, plaited, red. *Bull 304*.
- **cinnabarina*. Stiff, globular-compressed, roughish, dark pinky-red. *Bull. t 306*.
- juniperina*. Sessile, plaited, membranous, ear-shaped, fulvous.
- Sagarum*. Membranous sinuate, red-brown. *Flor. Dan. 885. 3*.
- **Sabina*. Sessile, prominent, oblong, denticulate, tawny, somewhat powdery. *Eng. Bot t. 710*.
- undulata*. Ascending, sinuate-waved, purple. *Hoffm. t. 7. 1*.
- ustulata*. Membranous, plaited, black. *Bull. t. 420. f. 2*.
- encephaliformis*. Sessile, oblong, pale flesh-colour, plaited-rugged. *Bot. Magz. 3. t. 4. f. 14*.
- albicans*. Oblong, convex, slightly waved, dirty-white.
- cerebrina*. Fleishy, circularly plaited. *Bull 386*.
- intestinalis*. Twisted, black-green. *Fl. Dan 805. 2*.
- torta*. Minute, yellowish, variously twisted.
- **Allii*. Sessile, membranous, labyrinth-like, white, grey within. *Act. Dan. 1. p. 286. f. 1*.
- **violacea*. Violet, wrinkled, smooth beneath. *Bull. 499. 5*.
- plana*. Expanded, flat, undulate-plaited, black-green.
- ruberrima*. Deep red, curled-undulate, sinuate-plaited.
- verticalis*. Vertical, black, elastic, variously plaited, ejecting a fine powder when fresh. *Bull. t. 272*.
- **crispa*. Dark-green, tender, curled, terrestrial. *Dill. 10. 12*.
- atra*. Sessile, deep black, minutely curled. *Schrank*.
- digitata*. Linear, toothed, fulvous. *Hedw. t. 7. f. 2*.
- hydnoidea*. Compressed-flat, deformed, digitate, hairy. *Jacq. Aust. 1. t. 16*.
- **verrucofa*. Roundish, vesicular tubercled, with a rounded lobed surface, brown-green. *Dill. 10. 16*.
- glandulosa*. Nearly sessile, transparent, black, footy within, sprinkled with glands. *Bull, 420. 1*.
- miliaris*. Red, with confluent warts sessile when dry.
- rubra*. Downy above, glabrous beneath, with scattered dots. *Fl. Dan. 884*.
- annulata*. Oblong, scattered, brown, with a flat surface, annulate when old. *Bot. Magz. 3. t. 4. f. 15. a b. c*.
- **deliquescentis*. Sessile, with a few obtuse lobes, yellow changing to orange, deliquescent. *Bull. 455. 3*
- coralloides*? Red, shrubby; branches cross-armed, obtuse.

1941. RHIZOMORPHA. *Fronde* much branched, creeping, horny or woody, concealing the fructification.

- **fragilis*. Dark chestnut brown: branches distinct, acute at the axils, mostly clavate. *Sow. Fung. t. 100*.

- **spinosa*. Black-brown; branches distinct, acute at the axils, acute.
Sow. t. 299.
- **dichotoma*. Black; repeatedly forked: branches distinct, rounded at the axils. Sow. 298.
- **patens*. Black-brown: branches complicately interwoven.
Sow. t. 392. f. 1. 2.
- **hybrida*. Dull saffron brown, spreading. Sow. 392. f. 3.

1942. FUCUS. Seeds produced in clustered tubercles which burst at their summits.

- **sinuosus*. Stem round: leaves oblong, undulate, sinuate-pinnatifid, ciliate on the margin; fringe linear-lanceolate, compressed, seminiferous. Eng. Bot. 822.
- polypodioides*. Stem roundish, flexuous, branched: leaves membranous, nerveless alternately pinnate, obtuse entire. Mart. Cent 32.
- Koelreuteri*. Membrano cartilaginous: stem very short, round, branched: fronds entire, linear; younger-ones warty.
Aët. Petrop. 11. t. 23. f. 1. 2.
- **sanguineus*. Stem round, branched: leaves petioled, simple, elliptic, undulate, entire: tubercles peduncled, globular, mucronate.
Eng. Bot. 1041.
- volubilis*. Frond flat, spiral, perfoliate, repand-toothed.
Wulf. collect. 3. t. 13. f. 2.
- venosus*. Frond flat, oblong, painted with warty veins.
- contortus*. Fronds flat, nerveless, proliferous towards the top, a little twisted at the axils, denticulate on the margin, somewhat undulate both sides. Gmel. t. 22 f. 1.
- **ruscifolius*. Stem branched, winged: leaves oblong-oval, obtuse, flat, entire, proliferous with pellucid concatenate veins: tubercles globular, sessile. Eng. Bot. 1395.
- **Hyploglossum*. Branched, winged: leaves linear-lanceolate, flat, entire, proliferous, with reticulate veins: tubercles globular, sessile. Eng. Bot. 1396.
- **Palmetta*. Stem round simple; the tips expanded into nerveless many-cleft leaves: fertile tubercles on the extreme segments.
Eng. Bot. 1120.
- **membranaceus*. Stem round, branched; the tips expanded into nerveless about 2-lobed leaves: seminal tubercles from the stem, peduncled. Linn. Trans. 3. t. 16. f. 1.
- **ovalis*. Frond filiform, a little compressed with uniform vague branches: leaves oval-oblong, fleshy, entire; upper-ones crowded.
Eng. Bot. 711.
- lendigerus*. Stem filiform, branched: leaves lanceolate, ferrate: vesicles racemed, filiculous, tubercled.

- **tenuissimus*. Frond filiform, much branched; branches alternate, capillary, acute: leaves tapering to both ends, bearing ovate-oblong tubercles. *Linn. Trans.* 3. 19.
- **dasyphyllus*. Frond round, filiform, branched; branches nearly simple: leaves cylindrical, tapering to the base, scattered, proli-ferous. *Eng. Bot.* 847.
- **obtusus*. Cartilaginous, filiform, compressed, twice or thrice pinnate: leaves cylindrical, nearly opposite, spread, very obtuse, truncate. *Eng. Bot.* 1201.
- **natans*. Filiform, compressed, pinnate: leaves oblong-lanceolate, ferrate: vesicles globular, peduncled, scattered, on flat dilated peduncles. *Esper.* t. 66.
- acinarius*. Filiform, branched: leaves linear, very entire: vesicles globular, peduncled. *Rumph. Amb.* 6 t. 76. f. 1. 2.
- salicifolius*. Stem simple, flattish: leaves lance-linear, very entire: vesicles globular, axillary, sessile. *Buxb. cent.* 3. t. 65.
- turbinatus*. Filiform, slightly branched: vesicles racemed, one of them turbinate, peltate, with a heart shaped crenate leaf. *Gmel.* t. 5. f. 1.
- **bacciferus*. Round, filiform, rigid, much branched: leaves linear-lanceolate, ferrate: vesicles globular, very numerous, on round peduncles. *Esper.* t. 23.
- **siliquosus*. Compressed, branched: leaves 2 rowed, alternate, entire: vesicles peduncled, oblong, hollow; pods lanceolate, solid. *Eng. Bot.* 474.
- siliculosus*. Filiform-compressed: leaves alternate, slightly ferrate: vesicles nearly globular; peduncled, mucronate.
- suprepandus*. Compressed; branches alternate: leaves linear-lanceolate, somewhat repand-toothed: vesicles peduncled. *Forsk. Arab.*
- Rosa marina*. Round, fleshy, branched, leaves perfoliate, about 3 in a whorl, marked with a ring in the middle. *Gmel.* t. f. 2.
- spermophorus*. Membranous, compressed, forked, capillary: leaves linear, many-cleft: globules peduncled, lateral.
- **abrotanifolius*. Filiform, compressed, doubly pinnate; extreme branchlets vesicular: vesicles innate, elliptic, ending in many-parted tubercled leaflets. *Ner. Brit.* 14.
- **discors*. Round, branched: leaves linear-lanceolate, ferrate, alternately pinnatifid; upper ones capillary, many-cleft ovate and tubercled at their tips. *Ner. Brit.* 17.
- marginalis*. Somewhat cartilaginous: frond filiform, round, compressed, much branched, beset on the lateral margin above with umbilicate tubercles. *Wulf.*
- musciformis*. Membranous, filiform, much branched; branches so-taceous: margins of the frond and branches ciliate. *Wulf. Jacq.* 3. t. 14. f. 3.

- **mucronatus*. Round, much branched; branches filiform, spinous, the extreme-ones vesicular: vesicles innate, lanceolate, filiform, ending in a simple tubercled point. *Velez t. 2. f. 1.*
- **barbatus*. Round, much branched, unarmed; branches filiform, tubercled at top: tubercles clustered into an ovate cuspidate pod. *Esper t. 30.*
- **selagnoides*. Round, much branched; branches panicled, with alternate subulate somewhat tetrastrichous spines tubercled at the base; upper-ones closely imbricate.
- **tamariscifolius*. Round, much branched; branches filiform, spinous, the extreme-ones vesicular: vesicles roundish, innate, ending in subulate spines tubercled at the base. *Ner. Brit. 11.*
- **fibrosus*. Round, unarmed, much branched: vesicles roundish, moniliform, innate: leaves entire, lower ones linear-lanceolate, upper-ones setaceous. *Ner. Brit. 14.*
- **ligulatus*. Somewhat cartilaginous, flat, veinless, bipinnate-ligulate; ligules opposite, 2-rowed, the extreme-ones linear-lanceolate and spinous-toothed. *Lightf. t. 29.*
- **esculentus*. Simple, undivided, ensiform, on a pinnate stalk; divisions 2-rowed, oblong, veinless. *Lightf. 28.*
- **ferratus*. Linear, forked, ferrate-toothed, cloven and flat at the tips; barren-ones obtuse, fertile-ones acute. *Eng. Bot. 1221.*
- **vesiculosus*. Linear, forked, entire, with globular, innate and axillary vesicles, cloven at the tips; barren-ones flat, fertile-ones tumid. *Eng. Bot. t. 1066.*
- **ceranoides*. Somewhat forked, linear, entire, scatteredly pinnate; divisions many cleft, somewhat radiate, tubercled linear-lanceolate rather tumid and pointed at their tips.
- **membranaceus*. Linear, forked, membranous, dotted, diaphanous, very tender, with an undulate nerve scatteredly proliferous. *Ner. Brit. 6.*
- **alatus*. Membranous, very tender, somewhat forked, with alternate, decurrent segments: tubercles globular, sessile. *Ner. Brit. t. 13.*
- **dentatus*. Membranous, branched, almost nerveless, alternately pinnatifid; branchlets linear, cut at top, with acute segments: fruit racemed. *Ner. Brit. 15.*
- **laceratus*. Membranous, very tender, slightly veined, with linear, obtuse branches undulate and curled-laciniate on their margins: tubercles immersed. *Engl. Bot. 1067.*
- **laciniatus*. Membranous, branched, veinless; branches dilated, palmate, obtuse with flat margins: tubercles in the marginal fringe. *Eng. Bot. 1068.*
- **viscidus*. Membranous, dilated, cloven, with divaricate obtuse segments: tubercles marginal, scattered. *Eng. Bot. t. 773.*

- polyphyllus*. Cartilaginous; stem roundish, flat and toothed towards the top: leaves gradually dilated, entire. *Gmel.* 31. 1.
- Flagellum*. Stem simple, leafless, subcoriaceous. *Gmel.*
- acerosus*. Leafless: stems round, branched; branches 2-rowed, crowded, every where beset with filiform spreading bristles. *Forsk.*
- fragilis*. Stems filiform, forked, brittle, flat-topped, leafless. *Forsk.*
- debilis*. Stems round, branched, somewhat flat-topped, tubular weak, leafless.
- cuneiformis*. Leafless: branches alternate, 3-sided, jointed; joints wedge form; angles subulate, toothed. *Forsk.*
- viscidus*. Stems round, forked, flat-topped, branched, 2-horned at top. *Forsk.*
- prolifer*. Frondescent, green, with ovate-flat proliferous joints. *Forsk.*
- hypnoides*. Stem and branches vaguely scattered, filiform, round-compressed, cartilaginous, pinnate, with subulate segments. *Jacq. coll.* 1.
- flavus*. Spongy: branches erect, somewhat 5-angled, laciniate-toothed, areolate, polished. *Linn. suppl.*
- * *ciliatus*. Membranous, tough, pinnate, clothed and fringed with scattered subulate mostly simple processes bearing the seeds in a globular tubercle. *E. Bot.* 1069.
- * *palmatus*. Membranous, glabrous both sides, palmate; segments oblong, nearly simple. *E. Bot.* 1306.
- * *edulis*. Fleishy, wedge form, nearly simple, glabrous both sides, rounded at top, entire at the margin. *Eng. Bot.* 1307.
- angulatus*. Stem flattish: branches divaricate, forked, cloven at top: tubercles lateral and axillary, scattered, minute, opaque. *Gmel.*
- * *Fascia*. Somewhat leathery, simple, linear, tapering to both ends, undulate, entire, without stem. *For. Dan. t.* 768.
- * *Phyllitis*. Membranous, thin, simple, linear-lanceolate, entire, on a short compressed stem. *E. Bot.* 1331.
- * *saccharinus*. Leathery, simple, sword-shaped, on a round rigid stem. *Eng. Bot. t.* 1376
- * *digitatus*. Cartilaginous, palmate, with sword-shaped segments, on a round stalk: root fibrous. *Ner Brit.* 3.
- bicornis*. Membranous, powdery, dilated, cloven at top. *Gmel.*
- ferrulatus*. Stems round, branched: leaves linear, simple, ferrulate. *Forsk.*
- linearis*. Flat, linear, forked, taper, acute. *Forsk.*
- plumaris*. Stem round, creeping, branched upwards; branches feather-like, leafy. *Forsk.*
- foliifer*. Fronds flat, gradually dilated, forked; the extreme-ones warty, with a linear lanceolate entire leaf at the margin and top. *Forsk.*

- truncatus*. Membranous, 3 and 4-forked, with truncate segments crenate-curved at top. *Pall. it. 3. p. 760.*
- glacialis*. Flat, linear, forked, many-cleft, much branched, with a very fine fringe. *Pall. it. 3. 760.*
- filicinus*. Leathery, nearly cylindrical, much branched; branches spread into an orb, with frondose segments near the tip.
Wulf. Jacq. 3. t. 15. f. 2.
- fruticulosus*. Leathery, round, filiform, decomposundly branched above; branches nearly setaceous, with alternate lax branchlets, and small pinnate-denticulate subdivisions.
Wulf. Jacq. 3. t. 16. f. 1.
- **bulbosus*. Palmate, with ensiform segments: stem flat, undulate on the margins below; root bulbous, rough. *Ner. Brit. 4.*
- **rubens*. Somewhat membranous, forked, proliferous in a chain-like manner: branches elliptic; branchlets dilated and cloven at top.
Eng. Bot. t. 1053.
- **norvegicus*. Cartilaginous, forked: branches linear, entire, rounded at top: tubercles hemispherical, seated on the disk.
Eng. Bot. t. 1080.
- **crispus*. Cartilaginous, forked, curled-undulate: branches dilated, entire: tubercles solitary, scattered, immersed, concave on one side. *Ner. Brit. 11. 12.*
- **mamillosus*. Cartilaginous, forked, channelled on one side: branches dilated, entire, clothed on both sides with mamillary tubercles.
Eng. Bot. t. 1054.
- **canaliculatus*. Linear, forked, entire, flat-topped, channelled on one side; the tips cloven, oblong, obtuse, tumid, tubercled.
Eng. Bot. t. 823.
- geniculatus*. Stem and branches jointed: frond forked, pellucid, equal: vesicles terminal. *Gmel. 1. A. 3.*
- **lanceus*. Forked, linear, acute, tubercled on all sides, with a cup-like base. *Eng. Bot. 569.*
- triqueter*. Frond, 2-edged, branched: leaves petioled, denticulate: vesicles immersed, oblong, 3-sided. *Mant.*
- racemosus*. Stem round, creeping-branched, leafless: vesicles obovate, in crowded racemes. *Forsk.*
- trinodis*. Stem round, branched; branches with 3 inflected vesicles, subulate at top. *Forsk.*
- seticulifus*. Round, branched, scatteredly warty; branches dilated at the base into a papillous vesicle. *Forsk.*
- **nodosus*. Somewhat forked: leaves, 2-rowed, peduncled, roundish, entire, fertile: vesicles innate, solitary, broader than the frond
Eng. Bot. 570.
- pyriferus*. Filiform, forked: leaves ensiform, membranous, solitary, serrate; terminal-ones inflated, petioled. *Mant.*

**pygmaeus*. Cartilaginous, forked, dilated and palmate at top: tubercles globular, terminal perforated at top. *E. Bot.* 1232.

Bursa Pastoris. Branched above; branches pinnate-branched: branchlets denticulate, with kidney-form winged sessile mucronate scales at the top of the extreme ones. *Gmel.* t. 8. 3.

triangularis. Stem and branches linear, 3-sided, ferrate, imbricate 3-ways with spreading 2-pointed denticles: globules ferrate, sessile. *Gmel.* 8. 4.

**capitatus*. Stem round-depressed; branches round, subulate, alternate, much crowded; vesicles racemed. *Gmel.*

**corymbiferus*. Linear, flat, forked, long, black: leaves alternate, distant, ending in denticles: globules terminal, crowded. *Gmel.* 9.

dentatus. Membranous, nerveless, red, somewhat pinnate, with denticulate thickly dotted segments. *Fl. Dan.* 354.

Pilularia. Flat, with alternate branches: frond pinnatifid, with lanceolate ferrate mucronate segments: globules solitary and in pairs, sessile and peduncled. *Gmel.* 19. 2.

**hirsutus*. Filiform, round, forked, every where clothed with thick hair. *Mant.* 11. 1.

ericoides. Filiform, much branched, hairy. *Gmel.* 11. 2.

**aculeatus*. Cartilaginous, filiform, much branched: branches linear, with marginal subulate erect spines. *Ner. brit.* 8.

**pinnatifidus*. Cartilaginous, branched; branches nearly alternate, doubly pinnatifid; segments obtuse, callous, with ovate sessile tubercles. *Eng. Bot.* 1202.

**corneus*. Somewhat horny, much branched; branches tapering to both ends, nearly doubly pinnatifid; segments opposite, spread, obtuse, tubercled at top. *Ner. Brit.* 12.

**girgitanus*. Cartilaginous, linear, forked, with linear acute branches set with spinous horizontal teeth: tubercles globular, sessile. *Eng. Bot.* t. 908.

**cartilagineus*. Cartilaginous, repeatedly pinnate, naked below; subdivisions alternate, compressed, nearly linear; ultimate-ones short, obtuse, tubercled at top. *Eng. Bot.* 1477.

**coranopifolius*. Cartilaginous, much branched; branches much divided, obscurely veined, dilated when barren: tubercles globular, on short 2-rowed forked or pointed stalks. *Eng. Bot.* 1478.

**coccineus*. Somewhat cartilaginous, much branched; ultimate branches subulate, alternately pectinate on one side; tubercles globular, sessile. *Eng. Bot.* 1242.

**crinitus*. Cartilaginous, flat, much branched; branchlets with simple and forked teeth: tubercles scattered. *Gmel.* t. 18. 2.

**spinulosus*. Cartilaginous, much branched, depressed below; branches flattened, spread; branchlets nearly opposite, pinnately setiferous each side: bristles subulate, thickened at top. *Gmel.* 18. 3.

vermicularis. Soft, pellucid: stems round, branched: fronds round, alternately pinnate, petioled, very short, tumid at top.

Gmel. t. 18. 4.

spinosus. Cartilaginous, leafless, branched, with whorled denticles 3 together. *Wulf. Jacq. 3. t. 15. 1.*

spermophorus. Membranous, forked, compressed, capillary: tubercles peduncled, lateral: leaves linear, many-cleft.

cæspitosus. Round, branched, with crowded warts tapering to both ends simple and branched. *Forsk.*

papillofus. Round, branched, every where clothed with spiral rows of warts many-lobed at top. *Forsk.*

uvifer. Round, with scattered branches, and crowded ovate tubercles, *Forsk.*

* *plumosus*. Rather cartilaginous, repeatedly branched; branches doubly pinnate; ultimate segments opposite subulate, ending in tubercles which are 4-cleft when ripe. *E. Bot. 1308.*

* *tomentosus*. Roundish, equal, downy, forked, obtuse. *E. Bot. 712.*

* *tuberculatus*. Filiform, forked, unequal in length; angles of the forks rather obtuse; tips oblong, obtuse, fruiting. *E. Bot. t. 726.*

* *rotundus*. Filiform, forked, flat topped; angles of the forks roundish, tips forked, acute, with lateral deformed warts.

Ner. Brit. t. 14.

fastigiatus. Filiform, forked, much branched, obtuse. *Fl. Dan. 393.*

lanosus. Capillary, forked, much branched, rough.

* *lumbricalis*. Filiform, forked, flat-topped; angles of the forks acute; tips fruiting, linear-lanceolate, round. *E. Bot. 824.*

* *plicatus*. Somewhat horny, filiform, equal, much branched; branchlets rather leaning to one side, entangled: tubercles lateral and terminal. *Eng. Bot. 1089.*

* *confervoides*. Filiform, much branched; branches and branchlets rather leaning one side, tapering to both ends: tubercles hemispherical, lateral, sessile. *Ner. Brit. 15.*

* *flagelliformis*. Filiform, slippery, branched; branches, 2-rowed, mostly alternate, long, simple or divided, obtuse. *E. Bot. 1222.*

* *Filum*. Slippery, somewhat cartilaginous, filiform, tapering to both ends, tubular, somewhat jointed within. *Ner. Brit. 10.*

* *Lycopodioides*. Filiform, branched, every where clothed with prominent bristles: branches mostly simple. *E. Bot. 1163.*

* *pinastroides*. Filiform, branched, every where clothed with subulate simple bristles rather leaning to one side: branches involute at top. *E. Bot. 1042.*

* *subfuscus*. Filiform, much branched; branchlets mostly alternate, subulate, short: fruit axillary, in small oblong pointed clustered pods. *Eng. Bot. 1164.*

* *purpurascens*. Filiform, much branched; branchlets setaceous, scattered, subulate: tubercles globular, turgid, imbedded. *E. Bot. 1264.*

- coralloides*. Stems somewhat 3-sided: branches alternately spread; branchlets denticulate each side, forked at top. *Gmel.*
- plicatus*. Capillary, uniform, much branched, entangled, nearly transparent. *Gmel.* 14. 2.
- rudis*. Roundish, much branched; branchlets alternate, fascicled, very short, tubercled, rough. *Gmel.* 15. 2.
- aphyllanthos*. Cartilaginous, round, entangled: ultimate branches subulate, thickened at top, or divaricate 2-ways, with transparent tubercles at the divarications. *Buxb. cent.* 2. t. 9. f. 1.
- Serra*. Cartilaginous, simple, prostrate, beset with subulate bristles opposite by pairs. *Buxb.* 8. 3.
- fertularioides*. Cartilaginous, erect, depressed, very thin, branched; fronds bristle-like, imbricate, pinnate; divisions numerous, incurved, entire. *Gmel.* 15. 4.
- *Wigghii*. Filiform, tender much branched; branchlets setaceous, nearly simple, scattered, with lanceolate pointed tubercles at their tips. *Eng. Bot. t.* 1165.
- *asparagoides*. Filiform, tender, much branched; branchlets setaceous, opposite, alternately tipped with globular tubercles. *Eng. Bot. t.* 571.
- *pedunculatus*. Filiform, pinnately branched; branches capillary, clothed with obovate, slightly peduncled tubercles, filamentous at top. *E. Bot.* 545.
- Bailloviana*. Stem flattish above, branched; filaments pencil-form, very minute, crowded, lax, floating. *Griseb. ic.*
- Bastera*. Stem round, branched at top: tubercles 1-seeded, ovate, alternate. *Bast. op.* 2. t. 12 f. 1.
- *capillaris*. Filiform, alternately much branched; branchlets somewhat 2-rowed, subulate, short. *Huds.*
- *Thrix*. Filiform, tubular, unbranched, capillary, many threads from the same base. *Ner. Brit.* 12. Probably a *Conferva*.
- *clavellofus*. Filiform, tender, tubular, much branched; branches and branchlets somewhat alternate and 2-rowed: tubercles lateral cup-shaped. *Eng. Bot.* 1203.
- *kaliformis*. Filiform, rather gelatinous, tubular, much branched; branches and branchlets somewhat whorled, contracted at the joints: tubercles globular, lateral. *Eng. Bot.* 640.
- *articulatus*. Tubular, concatenately jointed, with ovate-cylindrical joints: branches uniform, forked and whorled. *Ner. brit. t.* 8.
- *Opuntia*. Somewhat compressed, solid, jointed, much branched; joints obsoletely lanceolate: branches horizontal, pointed. *Ner. brit. t.* 16.
- *amphibius*. Capillary, much branched: branches and branchlets alternate, involute at their tips. *Eng. Bot. t.* 1428.

**fruticulosus*. Filiform, branched; branches alternately repeatedly pinnate; ultimate branchlets many-cleft, setaceous; tubercles sessile, ovate. *Esper.* 87.

**viridis*. Repeatedly pinnate, with all the divisions opposite and capillary. *Fl. Dan. t.* 886.

1943. *CONFERVA*. Herbaceous *tubes* or *fibres*, mostly separated internally by transverse partitions; *seeds* scattered through the joints, or produced in solitary closed tubercles attached to the fibres.

A. *Filaments simple*.

**echinulata*. Glaucous fibres jointed, spreading every way from a centre, and forming a globe. *Eng. Bot. t.* 1378.

**Ericetorum*. Fibres thin, closely entangled: joints rather long, a little contracted at the partitions. *Eng. Bot.* 1553. *Dillw.* 1.

**bipunctata*. Yellowish, slimy: joints short, cylindrical, with 2 dots in each. *Dillwyn Conferv.* 2.

**fontinalis*. Filaments closely compacted, very short, equal, without visible partitions. *Flor. Dan* 651. 3.

**rivularis*. Black-green, closely compacted, often twisted, with rather short joints. *Dillw.* 39.

**nitida*. Splendidly lubricous: joints rather long, cylindrical, with double spiral lines of fructification. *Dillw. t.* 4.

**Linum*. Round, rigid, crackling, inflected: joints cylindrical, dusky, with thin pellucid partitions. *Dill* 5. 25. A.

**capillaris*. Round, rigid, curled, entangled, brittle: joints cylindrical, short, with pellucid partitions: tubercles sessile. *Dillw. t.* 6.

fugacissima. Thin, straight, evanescent when dry: joints transparent in the centre, with dusky partitions. *Roth. Catlect. bot.* 1. t. 2. f. 3.

**sordida*. Very thin, inflected: joints oblong, pellucid, with contracted partitions. *Roth. catal.* 1. t. 2. 4.

ferruginea. Membranous, very thin: joints ovate, angular, pellucid with dusky reticulations. *Roth.*

hyemalis. Mucilaginous, thin, ferruginous, greenish-grey and brittle when dry: joints short, round, with pellucid reticulations; partitions dusky. *Roth.*

**limosa*. Thin, short, mucous, closely compact, greenish-blue, with indistinct partitions. *Dillw t.* 20.

**muralis*. Thin, fasciate, rather rigid, with obsolete partitions and very short joints. *Eng. Bot.* 1554. *Dillw.* 7.

**pectinalis*. Pellucid, broken, pointed: joints very short, crystalline in the middle; partitions often dissolved. *Dillw. t.* 24.

**decorticans*. Thin, closely compact, greenish-blue: joints short, with obscure dissepiments. *Dillw. t.* 26.

- **torulosa*. Rigid, entangled, thin: joints cylindrical, rather long, with pellucid partitions. *Dillw. t. 46.*
- **lucens*. Glaucous, thin, slimy: joints rather short, with the fructification in bands. *Dillw. t. 47.*
- **flacca*. Thin, minute, flaccid: joints very short, with pellucid partitions. *Dillw. t. 49.*
- **punctalis*. Slimy, very thin: joints rather short, round, with obscure partitions; the juice at length collecting into solitary globules. *Dillw. t. 51.*
- **confervicola*. Minute, mostly crowded, acute: joints round, of unequal length; partitions obscure. *Dillw. t. 8.*
- **focculosa*. Nearly simple, compressed, minute: joints prismatic, alternately refracted. *Dillw. t. 28.*
- **lanuginosa*. Nearly simple, minute, ferruginous-joints rather long, pellucid in the middle: tubercles 1-rowed. *Dillw. t. 45.*
- **spiralis*. Simple or conjugate in pairs, slimy: joints rather long, round: fructification in a single spiral line. *Dillw. t. 3.*
- **jugalis*. Flaccid, often conjugate in pairs: fructification in a double spiral line, at length collected into globules. *Dillw. t. 5.*
- **genussena*. Brittle: often abruptly bent and united at the angles: joints rather long, round, with the fructification in a line. *Dillw. t. 6.*
- Piscium*. Imbricate, pellucid, somewhat clavate. *Schrank.*
- lobata*. Parallel, from a lobed base. *Schr. t. 7. f. 2. 3.*
- lanceolata*. Filaments from a simple lanceolate obtuse base. *Schrank. flor. bav.*
- **moniliformis*. Filaments with a row of oval bodies. *Aët. Sterk. 1783. t. 3. f. 1—5.*
- **transversina*. Joints unequal, with a double band. *Aët. Petrop. 3. t. 1. f. 12.*

B. Filaments branched.

- **rubra*. Branchlets setaceous, forked at top: joints pellucid in the middle, a little contracted at the partitions: capsules globular, lateral. *Dillw. 24. Eng. Bot. t. 1166.*
- **Rothii*. Branchlets forked, fascicled: joints oblong, striate, with pellucid rather elevated partitions: capsules globular, lateral. *Roth Gat bot. 1. t. 8. 2.*
- **polymorpha*. Somewhat cartilaginous, forked, flat-topped: joints short: capsules on the upper branches ovate, sessile. *Dillw. 44.*
- **elongata*. Branches and branchlets elongated, diffuse, setaceous, veined: joints very short, with obscure partitions: capsules ovate, sessile. *Dillw. t. 33.*
- **coccinea*. Much branched, hairy, repeatedly pinnate; ultimate divisions fascicled, pencil-form: joints short, with obscure partitions: capsules ovate. *Eng. Bot. t. 1055.*

- **rosea*. Repeatedly pinnate, thin, alternate: joints oblong, with contracted partitions: capsules placed one way, nearly globular. *Eng. Bot. 966. Dillw. 17.*
- **Plumula*. Branches alternate, pinnate, with opposite divisions; the ultimate-ones leaning one way: capsule slightly pedicelled. *Dw. 50*
- **vagabunda*. Branches and branchlets alternate, every where clothed with short pellucid jointed filaments: partitions approximate, rather obscure: capsules peduncled, hemispherical, brown. *DI. 5. 32*
- **byssoides*. Doubly branched, thickly set with doubly branched tufts: partitions obscure: capsules globular, dark brown, from the tufts. *Eng. Bot. 547.*
- **parasitica*. Doubly pinnate, purplish-brown; ultimate segments subulate: capsules oblong, axillary. *Eng. Bot. 1420.*
- **Mertensii*. Branches opposite; pinnate: joints short: capsules minute, acorn-shaped, on short stalks. *Eng. bot. 999.*
- **littoralis*. Much branched, thin, closely entangled, with pointed segments: joints cylindrical, short, with dark partitions. *Dillw. tab. 31.*
- **nana*. Much branched, minute, with mostly alternate pointed divisions; joints cylindrical; partitions pellucid. *Dillw. tab. 30.*
- **fluviatilis*. Divisions rather rigid, mostly alternate, tapering to both ends: joints long, dilated 2 ways, with swollen warty partitions. *Dillw. t. 29.*
- **atro-virens*. Divisions rather rigid, divaricate, mostly one way, tapering to both ends, rather obtuse: joints very short, 3-dotted, with pellucid partitions. *Dillw. t. 25.*
- **diffusa*. Branches diffuse, somewhat forked, flexuous, remote; branchlets short, approximate, obtuse: joints very long, with pellucid partitions. *Dillw. t. 21.*
- **tomentosa*. Thin, closely entangled: branches divaricate, the ultimate-ones simple: joints long. *Dillw. 56.*
- **aspera*. Capillary rather rigid, closely branched: branchlets one way; joints long, with thin pellucid partitions, alternately compressed when dry: capsules lateral, globular. *Dill. 5. 28.*
- **dichotoma*. Fascicled, stiff, flat-topped, forked, slightly jointed, with obsolete partitions: joints very long: capsules elliptic, sessile. *Dillw. 995. Eng. Bot. 922.*
- **fusca*. Membranous, forked; ultimate branches alternate, simple: joints oblong, pellucid; partitions contracted: capsules roundish, sessile
- **canicularis*. Short, slender, green, more branched towards the base. *Dill. 4. 15.*
- **frigida*. Creeping, jointless: branches somewhat forked, alternate, inflected, distinct when dry: capsules roundish. *Dillw. t. 16.*
- **flexuosa*. Branches forked, rather rigid, flexuous; branchlets nearly simple, alternately spread one way: joints cylindrical, with obsolete partitions. *Dillw. t. 10.*

- **repens*. Minute, creeping, closely entangled: branches and branchlets mostly one way: joints cylindrical; partitions a little contracted. *Dillw. t. 18.*
- **myochrous*. Closely entangled; branchlets mostly simple and one way, in pairs, incurved. *Dillw. t. 19.*
- **comoides*. Branches thin, scattered, rather remote, pointed: partitions a little contracted, nearly obsolete. *Dillw. t. 27.*
- **aurea*. Minute, golden, with long spread rather rigid and incurved branches: joints rather long, with pellucid partitions. *Dillw. t. 35. Eng. Bot. 212. Byssus.*
- **velutina*. Green, entangled, erect, short, slender, obtuse, mostly alternately branched: joints slightly swelling, shortish *E Bot. 1555*
- **purpurea*. Minute rich purple, forked, flexile: joints rather long; partitions dusky. *Dillw. 43. Engl. Bot. 192.*
- **amphibia*. Slightly jointed, entangled: branches spread, remote; branchlets uniting into needle-like points when dry: partitions a little contracted: capsules nearly elliptic. *Dillw. t. 41.*
- **velutea*. Very thin and short, equal, closely compacted and widely extended, violet. *Dill. 2. 4.*
- **ochracea*. Much branched, very thin and compact, forming an ochraceous curd-like mass which on handling breaks in pieces. *Roth. Cat. Bot. 1. t. 5. f. 2.*
- stellaris*. Equal, parallel, from an orbicular base, branched at top. *Floer. Dan. t. 660 f. 1.*
- fenestralis*. Equal, much branched, appressed, sinuate, gibbous, centrifugal. *Roth.*
- nitens*. Equal, forked, very thin, silky, simple at the ends. *Dill. 2. 6.*
- crispata*. Forked, capillary, closely inflected: joints oblong, with a spiral line, alternately compressed when dry; partitions very thin. *Roth*
- **fracta*. Much branched, entangled, divaricate: older joints oblong, younger-ones cylindrical: capsules roundish. *Dillw. 14.*
- **villosa*. Branches and branchlets opposite, distant: joints very short; partitions dusky, villous. *Dillw. t. 37.*
- **stricta*. Somewhat forked, tufted, veined, purple, with long joints. *Dillw. 40.*
- flavescens*. Forked, pellucid: branches mostly one way; joints oblong, partitions remote, contracted when dry. *Roth.*
- **glomerata*. Branches alternate; branchlets one way, fascicled, pencil-form: joints cylindrical, rather long; partitions pellucid. *Dillw. t. 13.*
- crystallina*. Very thin, much branched from the base, wand-like; branches tufted: joints oblong, crystalline; partitions contracted. *Roth.*
- **distorta*. Fasciate; branches and branchlets distorted: joints short, *Eng. Bot. 1555.*

with obsolete partitions. *Dillw. t. 22.*

- **rupestris*. Much branched, fascicled, thin, appressed, truncate; joints long, cylindrical; partitions crystalline, a little contracted. *Dillw. t. 23.*
- **agragopila*. Repeatedly forked, clustered into a globe, and divaricating from the centre: joints cylindrical, long: partitions obscure, a little contracted. *Eng Bot. 1377.*
- **late virens*. Much branched, rather rigid, curved: branchlets alternate, one way: joints long; partitions pellucid. *Dillw. 48.*
- Fucorum*. Very thin, forked: branches very remote, simple: joints ovate, obscure at each end; partitions pellucid. *Cat. Bot. 1. t. 4. f. 2.*
- **mutabilis*. Much branched, gelatinous, somewhat moniliform; branchlets pencil-form, fetaceous, branched: joints short, partitions contracted. *Dillw. t. 12.*
- **gelatinosa*. Much branched, moniliform, slippery: branchlets thin, pencil-form, somewhat whorled: joints short; partitions obscure: capsules roundish, among the branchlets. *Dillw. 32. E. Bot. 689.*
- **atra*. Much branched, moniliform, somewhat gelatinous; branchlets fetaceous: joints dilated towards the top, with imbricate whorled fringe. *Dillw. t. 11. F. Bot. 690.*
- **scoparia*. Rigid, fascicled: branches alternate, pointed: joints short; partitions obscure. *Dillw. 54. Eng. Bot. 1552.*
- **spongiosa*. Branchlets short, simple, every where imbricate: joints short: capsules oblong, peduncled. *Dillw. 42.*
- **verticillata*. Cartilaginous, somewhat forked; branchlets whorled at the partitions, short, curved, mostly forked: joints short. *Dillw. t. 55.*
- **equisetifolia*. Branches nearly simple; ultimate ones whorled, short, forked, with long joints. *Dillw. 54. Eng. Bot. t. 1479.*
- **ciliata*. Forked, pincer-like at the ends: partitions ciliate in whorls: joints pellucid in the middle: capsules nearly globular, lateral. *Dill. t. 53.*
- bronchiatis*. Slightly branched, very thin: joints short, pellucid; partitions of 2 rings with a thin tunic easily separating between them. *Roth.*
- **umbrosa*. Much branched, very thin, closely inflected: joints a little inflated; partitions contracted, obscure. *Cat. Bot. 1. 4. 3.*
- Mucor*. Minute, glaucous, much-crowded: joints prolific, diffuse, nearly pellucid. *Dill. 85. f. 21.*
- pusilla*. Very short, gelatinous, white: joints cylindrical, crystalline; partitions obscure. *Roth. n. 37.*
- violacea*. Very thin, forked: joints ovate, pellucid, with contracted obscure partitions. *Cat. Bot. 1. t. 4. f. 1.*
- **diaphana*. Much branched, forked at the ends: joints swollen at each end, diaphanous in the middle; partitions obsolete: capsules globular, lateral. *Dillw. t. 38.*

- inflexa*. Closely inflected, very thin, knotty, forked; the knots short, approximate, reflected at each end. *Cat. bot.* 1. t. 5. f. 5.
- **reticulata*. Filaments united into a net-work. *Dill.* 4. 14.
- **foeniculacea*. Much branched; branches and branchlets very long, scattered. *Dill.* t. 2. f. 8.
- **multifida*. Much branched, red; branchlets opposite, short, many-cleft. *Huds.*
- **intertexta*. Slightly branched; branches short, of equal thickness; substance a closely interwoven texture without mid rib. *Velley.*
- **corallina*. Forked, white, acute: joints purplish, thicker at the end. *Dill.* 6. f. 36.
- **tubulosa*. Much branched, yellowish-green: joints oval, alternately compressed. *Dill.* t. 6. f. 39.
- **setacea*. Forked, greenish red or purplish: branches long, setaceous: joints cylindrical. *Dill.* 6. 37.
- **tetragona*. Much branched, pink-red: branches square.
- plana*. Compressed, red-violet: branches 2-rowed, crowded.
- vesicata*. Slightly branched, produced into a vesicle in the middle and at top. *Aët. Petrop.* 3. t. 2 f. 6.
- hirsuta*. Divaricate, emitting lateral vesicles. *Aët. Pet.* 2. 10.
- saccata*. Repeatedly divaricate on the same side, alternately filled with an air bubble. *Aët. Pet.* 3. t. 2 f. 10.
- thermalis*. Much branched; branches immersed, united by a membrane. *Schrank. Bav. n.* 1594.
1944. BYSSUS. Filaments or fibres thin, membranous, woolly, sprinkled externally with grains of fructification.
- **septica*. Filaments simple, ascending, entangled, expanded, blackish. *Dill.* t. 1. f. 2.
- pellicula*. Much branched, entangled, expanded, cinnamon. *Dill.* t. 1. f. 13.
- **candida*. Dispersed, much branched, whitish; branchlets fascicled. *Dill.* t. 1. f. 15.
- alutosa*. White, membranous, tender, like buff leather. *Talck.*
- radiciformis*. Snowy, very tender, branched, pendulous, with scattered floccular globes. *Lesks it* 1. p. 92.
- globosa*. White: filaments collected in a globe. *Lesk. t.* 3.
- aquatica*. Hyaline: filaments simple, clavate at top. *Fl. Dan.* 896.
- bombycina*. Snowy, simple, thin, clustered, depressed. *Dill.* 1. 9.
- **phosphorea*. Simple, short, ascending, tufted, violet. *Sow.* 350.
- **eruginosa*. Erect, somewhat flat-topped, simple and branched, green. *Dill.* t. 1. f. 7.
- **nigra*. Branched, matted, powdery, black. *E. Bot.* 702.
- petraea*. Branched, short, erect, matted, like black silk. *Wulf.*
- nigricans*. Erect, tufted, black-green, simple and branched. *Dill.* t. 1. f. 11.

**fulva*. Branched, tawny, finely feathered. *Sow. t.* 350.

sanguinea. Capillary, velvety, perennial, scarlet, attached to the bark of trees. *Swartz.*

Flos cobaltii. Capillary, very tender, rosy, closely interwoven like a piece of silk. *Wulf. Jacq. coll. 2. t. 12 f. 1.*

**barbata*. Erect, branched, tufted, with annual interruptions, tawny, with smooth deeper tips. *Eng. Bot. t.* 701.

**Cryptarum*. Capillary, cinereous, tough, on rocks. *Dill. 1.* 20.

**Flos aquæ*. Featherly, floating, greenish.

cancellata. Exactly cancelled every where. *Lederm mic. t.* 72.

tremelloides. Brownish yellow, gelatinous, with the fibres entangled.

Schrank. Bav. n. 1585.

ORDER V. FUNGI.

1945. AGARICUS. *Fungus* with gills underneath.

A. *Stem surrounded with a ring and curtain.*

**caesarius*. Cap convex, golden: flesh ochraceous: gills broader in the middle, intermediate ones very short. *Sow. t.* 8.

**muscarius*. Red-brown, convex, with whitish warts gills and stem: stem swollen at the base. *Sow t.* 286.

margaritiferus. Pasty with flesh-colour warts and whitish tubercles: gills white. *Bull t.* 316.

Mappa. Cap convex, yellowish-grey: gills alternately longer, and stem yellowish: *Schæff. t.* 20.

**verrucosus*. Convex, a little concave in the middle, warty and scaly, whitish: gills loose. *Bolt t.* 47.

subgracilis. Hemispherical, glabrous, greyish: gills white: stem hollow. *Batch. 59.*

**vernus*. White: cap flat, rather moist, impressed in the middle: stem full, bulbous at the base: gills numerous, divided. *Bolt. 48.*

B. *Stem with a curtain without ring.*

**giganteus*. Dirty white, funnel form, reflected at the edge: gills white, broad, irregular: stem white, rather taper upwards. *Sow t.* 244.

**badius*. Orange-brown, rather bossed: gills pale-brown, uniform: stem pale: wrapper permanent, 3-lobed. *Sow t.* 1.

denudatus. Convex, involved in a yellow-brown hood, with a naked greenish fibrous margin: stem whitish, full, bulbous at the base. *Schæff. 98.*

grisea albus. Cap greyish, lucid, with carinate plaits on the margin; the keel footy-mealy: gills crowded, unequal, and full stem mealy whitish. *Batch. 85.*

navius. Convex, white with brown rays: gills unequal, cinnamon, loose behind: stem grey, thickened downwards. *Bull. 264.*

- lucens*. Yellowish: cap lucid above, brown beneath. *Bul.* 431. 1.
helvolicus. Brown, conic, cracked: gills red-brown, broad, short: stem brown, taper upwards. *Bul.* 431. f. 4. 5.
praetius. Hemispherical, downy when young: stem 4 times as long as the cap, grey, slender: gills ferruginous. *Mich* 81. 3.
minor. Blueish-buff, covered with a web: gill few, broad, cinnamon, close to the full stem. *Bul.* 330.

C. *Stem annulate, without wrapper.*

- **procerus*. Widely conic, bossed, white-brown: gills white, uniform, fixed to a collar: stem scaly. *Sow.* t. 190.
pistillaris. Tawny-yellow, with an undulate-plaited margin: gills pale brick-colour, crowded: stem tawny-yellow, clavate, full. *Batch.* 55.
cumulatus. Reddish-brown, woolly and tufted; gills white: stem yellow brown or olive, bulbous. *Bolt.* 141. 140.
campestris. Convex, whitish-brown, spotted: gills pink, becoming liver-colour: stem white. *Sow.* 305. Mushroom.
pratensis. Convex, whitish or pale, green with grey stripes: gills dull flesh colour: stem thick, whitish, with an inflected brownish base. *Schaeff.* t. 96.
laceratus. Brown flesh colour, with scaly spots larger in the middle jagged at the edge: gills dirty flesh-colour, stem brownish, hollow *Schaeff.* t. 242.
nitens. White, shining, glutinous yellowish in the centre: gills white; stem whitish-buff, long. *Sow.* t. 71.
radicosus. Convex, brown spotted with white: gills numerous, slightly ferrate, umber: stem scaly: root fusiform, fibrous. *Bul.* t. 160.
floccosus. Convex, bright bay, tufted with black hair: gills buff; stem brown-bay, tufted. *Sow.* 284.
imbricatus. Pale sulphur, silky, unctuous, with silky tufts: gills yellow-olive, 4 in a set: stem long, pale above, ferruginous below. *Batch.* 149.
villosus. Fulvous, villous; gills crowded, 3 in a set, pale grey: stem brittle, dirty white, ascending. *Bolt.* 42.
vitellinus. Sulphur: cap conic, with downy tufts, undulate on the margin: gills loose, lanceolate, in one set: stem glabrous, thicker downwards. *Bolt.* t. 50.
mutabilis. Brown-orange, convex, bossed: gills tawny: stem red-brown below, scurfy, white at top. *Schaeff.* 9.
durus. Pale dusky-buff, convex: gills loose, pale grey, numerous: stem pale whitish-buff, brittle. *Bolt.* 67. 1.
orichalceus. Rather convex, pale cinnamon, a little deflected at the margin: gills dark cinnamon: stem whitish, nearly cylindrical. *Batch.* t. 184.

olivascens. Bulbous, livid, olive-grey: cap rather viscid, umbonate: dilated gills and ring chestnut: stem paler grey. *Batch.* 185.

**ferruginascens*. Blueish with a brown centre: gills purplish-brown: stem pale blue. *Batch.* 187.

snbautiquatus. Spotted with brown with a brown disk: gills 3 in a set: stem long, smooth. *Batch.* 205.

D. *Stem without ring or wrapper.*

**virgineus*. Pure white, nearly flat: gills greatly decurrent: stem full, white. *Sowerby. t.* 32

**integer*. Various tints of purple, viscid: gills mostly white, entire, uniform. *Sow.* 201.

Russula. Fragrant, sweet: solitary, red, with a whitish tender firm flesh: gills thick, equal, rigid. *Kraff.* 1-7.

emeticus. Acrid, graveolent, solitary, sanguineous: gills equal, thick brittle, forked at top: stem full. *Schaeff.* 15. 16.

cyanoxanthus. Pale or reddish with a blueish margin: gills equal, white, thick: stem full, short. *Kraff. t.* 6. f. 1-6.

**xerampelinus*. Red to rich orange, convex, bossed: gills golden yellow: stem buff, with a rosy shade. *Sow. t.* 31.

virescens. Viscid, variously coloured: gills whitish, equal: stem full, round. *Kraff. t.* 9 f. 6. 7.

glutinosus. Viscid, thinning, ochraceous, blackish when dry: gills the same colour, thick, branched, equal: stem round, full, incurved, thick at the base. *Kraff.* 11. 1-7.

**violaceus*. Convex, purplish-brown, inflexed at the edge: gills purple: stem purplish, bulbous. *Sow.* 209.

araneosus. Tawny, with a cobweb fringe: gills broad, divided behind, whitish: stem short, thick, whitish. *Bull.* 96.

armeniacus. Rusty-chestnut: gills reddish: stem whitish, full, thick at the base. *Schaeff.* 81.

sericeus. Yellow with obsolete scaly spots: gills yellow: stem short, bulbous, sulphur. *Schaeff.* 24.

**rutilus*. Reddish orange, fleshy: gills purplish, coriaceous: stem reddish, thick at top. *Sow. t.* 105.

**croceus*. Rather conic, villous, yellow: gills white: lower part of the stem villous, yellow, thicker. *Sow.* 19.

**fulvidus*. Fulvous: cap convex, glabrous: gills remote, thick, decurrent, 3 in a set: stem paler. *Bolt. t.* 56.

**Georgii*. Yellow, convex: gills yellowish-white: stem yellow, thickish, smooth: juice yellow. *Sow.* 304.

**truncatus*. Brick-colour, conical, flat at top when young: gills dirty white, in pairs: stem white, round, swollen at the root. *Schaeff.* 25

**vaccinus*. Brown, scurfy, convex, generally bossed: gills pale brown: stem round, pale brown. *Schaeff.* 25.

- luteus*. Granular, golden, with a tawny clouded disk: gills yellowish: stem full, tubercled at the base, yellowish. *Schaeff.* 41.
- ferrugineus*. Rusty-brown with fibrous striæ: gills brownish: stem round, full, thick below. *Schaeff.* 37.
- striatus*. Chestnut, with a paler striate margin: stem round, thick, short, full, whitish. *Schaeff.* 38.
- *ceraceus*. Deep yellow, hemispherical, smooth: gills pale yellow, in pairs: stem deep yellow, long. *Sow.* 20.
- *flaccidus*. Campanulate, saffron, spotted: gills brick-colour: stem short, pale, curved. *Sow.* 185.
- Rudolphi*. Gregarious, oval conic, obtuse, rough, ferruginous: stem flexuous, sulphur, opaque brown beneath. *Batsch.* 23.
- Subgranulatus*. Dry, rough, brown, thick, with a thin revolute margin: gills brown, sinuate: stem taper, striate, hollow, bulbous at the base. *Batsch.* 22.
- adhaerens*. Black, glutinous: gills dull, branched, slightly decurrent: stem full, round, whitish. *Schaeff.* 36.
- *terreus*. Umber, with brownish hairy spots: gills and round full stem white. *Sow.* tab 76.
- mitratus*. Sulphur-ferruginous, with crowded small hairy spots: gills tawny-violet: stem scaly, hollow: yellowish. *Schaeff.* 84.
- undulatus*. Obtusely conic, hoary, with darker and unequal angular spots in transverse rows: gills dirty white: stem round, short, whitish, bulbous. *Schaeff.* 89.
- spadiceus*. Tawny, viscid, depressed: gills brown, the outmost minute: stem hoary, clavate, silky-fibrous. *Batch.* 16.
- *ochraceus*. Ochre, shining, rather campanulate: stem ochre, somewhat clavate, silky-fibrous: gills rusty-brown, narrow. *Batch.* 51.
- *caulicinalis*. Convex, yellow, orange in the centre: gills yellow: stem brown, villous, thicker at bottom. *Sow.* 163.
- fastigiatus*. Conic, umbonate, yellow, longitudinally striate: gills brownish: stem round, full, long, linear, yellowish. *Schaeff.* 26.
- *latus*. Brown mouse-colour, slightly bossed: gills pale flesh-colour: stem whitish, round. *Sow.* 108.
- *aureus*. Orange-buff, with dark tufts: gills very short, whitish: stem buff, smooth. *Sow.* 77.
- *versicolor*. Greenish-buff, scurfy, convex, involute at the margin: gills yellow-white changing to dark red: stem white, becoming brown.
- *coralloides*. Tawny-red, convex, smooth: gills small, few, whitish: stem whitish, thicker in the middle. *Dicks.*
- *caeruleus*. Blue-green, dry, hemispherical: gills white, fleshy, brittle: stem round, whitish. *Bolt.* t. 12.
- cinnamomeus*. Cinnamon, somewhat bossed: gills tawny-red, broader in the middle: stem yellow. *Sow.* 105.

- **elephantinus*. Brown-yellow becoming black: gills yellowish-white, fleshy, distant; stem whiter. *Sow.* 36.
- **mollissimus*. Pulvinate, soft, mouse-colour; gills narrow, tender, whitish, unequal, 3 in a set: stem bulbous, thick, spongy. *Bolt.* t. 40.
- **Offa*. Red-buff, whitish at the margin: gills brown-red: stem white scurfy. *Bul.* 308.
- **binnuleus*. Bright fawn-colour, convex, mealy: gills buff, very broad: stem chestnut. *Sow.* 173.
- **turbinatus*. Yellow-buff, convex: gills numerous, divided, paler: stem whitish, bulbous. *Sow.* 120.
- **lycooperdonoides*. Entirely black: stem short. *Sow.* 383.
- **contiguus*. Dull yellow, downy, convex: gills yellow-brown, anastomosing: stem brown, striate. *Sow.* 56.
- Libertatis*. Dull brownish, umbonate, small, with a greyish involute margin: gills hoary, semitransparent, narrow, unequal bowed, entire and cloven: stem long, hoary, solid, bulbous. *Batsch.* f. 62.
- **pileatus*. Opake, dry, ferruginous with grey down, umbonate, small: gills narrow, thick, crowded, yellowish: stem long, hollow, bulbous, yellowish. *Batsch.* 63.
- **nivosus*. Snowy, small, convex, with a scurfy margin: gills narrow, crowded: stem thick, long, scurfy. *Batsch.* 64.
- **nimbatus*. Rather moist, glabrous, hoary shaded with brown, white on the margin and beneath: gills broad, white: stem scurfy, white. *Batsch.* 65. 66.
- **tuberosus*. Whitish: cap convex, rather plaited at the edge: gills decurrent: stem thin, full, downy, bulbous. *Bul.* 256.
- **crassipes*. Chestnut, hemispherical, involute, dry: gills pale brown: stem reddish-white, striate. *Sow.* 129.
- **Coralinus*. Smooth, brownish convex, small: gills distant, minute: stem thicker in the middle. *Scop. dis.* 1. t. 9. f. 5.
- **radicatus*. Greenish or brownish, obtusely conical: gills white, few, stem brown, taper upwards. *Sow.* 48.
- **Oreades*. Pale flesh-colour, bossed: gills few, and with the stem pale flesh colour. *Sow.* 247. Champignon.
- **drpophyllus*. Buff colour, tawny in the centre, hemispherical: gills pale buff: stem tawny, hollow. *Sow.* 127.
- The two last appear in circles and form *Fairy rings*.
- **oedematopus*. Reddish-brown, conic, involute at the edge: gills brownish yellow, few, fleshy, in pairs: stem dirty brown, thicker in the middle. *Bolt.* 43.
- **laricinus*. Fox-colour, convex, involute: gills white, in pairs: stem brown, branched, thick, spongy. *Bolt.* 19.
- **spinipes*. Brown, rather conic: gills white-brown: stem long, rough, prickly at the base. *Sow.* 206.

- fasciatus*. Tawny, rather conic: gills few, small, short, purplish: stem thin, full, with brown bands. *Schaeff.* 223.
- rufescens*. Reddish, striate, hollow in the centre: gills decurrent: stem round. *Schaeff.* t. 55.
- **flavidus*. Yellow, obtusely conic: gills deep buff: stem pale yellow, brownish at the base. *Sow.* 336.
- tuberculosus*. Yellow, convex, with a tubercled striate margin: gills broad, short, sulphur: stem linear, striate, white, above. *Schaeff.* 79.
- leoninus*. Yellow, bossed, with the margin striate: gills broad, flesh-colour: stem long, thin, yellowish, flexuous, striate. *Schaeff.* 48.
- **fascicularis*. Yellow and orange: gills brown-green: stem yellow, long, crooked. *Sow.* 285.
- **pallidus*. Pale buff, conical: gills pale flesh-colour: stem short, full, round, pale. *Sow.* 143.
- incertus*. With scattered scales: cap bay: gills yellowish: stem long, somewhat clavate, yellowish, brownish below. *Schaeff.* 62.
- viscosus*. Smooth, coriaceous, viscid, convex, pale ochre, gills pale ochre, distant, sinuate on the lower margin, undulate on the upper: stem solid. *Batsch.* f. 70.
- umbrinus*. Rather moist, white-ochre, with thin pellucid margin: gills white-ochre, very broad, decurrent: stem short, thick, full. *Batsch.* f. 71.
- **riscigallinus*. Whitish, convex: gills white, very short, in pairs: stem whitish, conic, crooked. *Batsch.* 62.
- defossus*. Smooth, rigid, bossed: gills nearly equal, blueish-grey: stem silky fibrous, bulbous. *Batsch.* 73.
- **glaucopus*. Reddish-brown, purplish at the edge: gills red-brown: stem violet, scurfy, bulbous. *Sow.* 223.
- subannulatus*. Pale brown, smooth, veined, bossed: gills oblong, obtuse both sides, tender, crowded, reddish: stem smooth, bulbous, yellow, white above the spurious ring. *Batsch.* 75.
- **impuer*. Reddish brown, conic, becoming flattish and bossed, with a yellowish margin: gills deep buff: stem whitish or purplish, round. *Sow.* 125.
- **proliferus*. Buff, obtusely conic, becoming flat and torn: gills pale buff: stem whitish, proliferous at the base. *Sow.* 169.
- squamulosus*. Dry, dull-yellow, with numerous chestnut villous scales: gills yellow ferruginous, 3 in a set: stem yellowish, silky-fibrous. *Batsch.* f. 190.
- subferrugineus*. Bulbous, fibrous, livid-brown: gills lax, ferruginous, 3 in a set: stem thick. *Batsch.* 186.
- elatio*. Narrow, pale ochre: gills rusty-yellow, 4 in a set: stem white long, crooked, silky-fibrous, *Batsch.* 188.

- Fusus*. Testaceous, glabrous, cracked: gills paler, 3 in a set: stem silky-fibrous; thicker upwards. *Batsch* 189.
- nebularis*. Dark-grey, glabrous, involute: gills pale ochre, 3 in a set: stem grey; bristly fibrous, white downy at the base. *Batsch*, f. 193.
- laterinus*. Somewhat viscid, bossed, brick-colour: gills pale fibrous, narrow: stem pale, rough. *Bull* 308.
- disors*. White, bossed, rather viscid. stem longitudinally floccular below, transversely above. *Batsch* 196.
- senescens*. Changeable ochre, viscid: gills broad, pale fulvous, 4 in a set: stem with pale floccular transverse stripes. *Batsch* 197.
- subtestaceus*. Pale ochre, opaque: gills yellowish, 3 in a set: stem floccular. *Batsch* 198.
- cruentatus*. Opaque, rigid, white ochre with purplish dots and zones: stem with purplish spots. *Batsch*, f. 201.
- Madreporeus*. Brittle, grey with brown fibres: gills broad, livid-grey, 3 in a set: stem pure white. *Batsch*, f. 203.
- *corticalis*. Hemispherical, whitish-brown: gills pale, in pairs: stem reddish-brown, crooked. *Sow.* t. 243.
- collog*: *E.* Cap funnel-form or oblique.
- *lobatus*. Funnel-form, lobed, dark livid: gills brown: stem reddish-brown, taper. *Sow.* 186.
- *infundibuliformis*. Funnel-form, brownish-buff: gills white, narrow: stem brownish-buff. *Bull* 286.
- *opacus*. Dead-white, nearly flat: gills white, numerous: stem white, with a brownish pith. *Sow.* t. 142.
- subalutaceus*. Pale rufous, somewhat coriaceous, involute: stem white-downy or floccular. *Batsch* 194.
- cochleariformis*. Dry, whitish, undulately striate: gills thick, branched: stem oblique, short, thick. *Schaeff* 225.
- flammeus*. Yellow, jaggedly scaly; the scales of various colours: gills crenate: stem short, full. *Schaeff* 39 30.
- *tubaeformis*. Funnel-form, gold-yellow: gills pale yellow, toothed: stem long, crooked. *Sow.* 382.
- *cyathiformis*. White, glass-shaped: gills white, narrow: stem nearly cylindrical. *Bolton* t. 17.
- impressus*. Obconic, grey, with a revolute plaited margin: gills numerous, greenish: stem full. *Bull* 38.
- sanguinolentus*. Blood-red: gills simple, cloven at top, whitish, brittle: stem full, blood-red. *Bull* 42.
- obconicus*. Mouse-colour, undulate at the edge: gills decurrent, pointed at both ends, 2 in a set: stem full, dilated upwards. *Bull* 286.
- furcatus*. Green-grey, mealy: gills forked, attached to the full spongy stem. *Bull* 26.

atro-tomentosus. Oblique, roughish, rusty-brown: gills pale ochre: stem short, thick, round, a little incurved, sooty, downy.

Batsch f. 32.

caliciformis. Smooth, pale fulvous, involute: gills pale ochre, decurrent: stem thick, pale fulvous, grey-downy, dilated upwards.

Schaeff. 252.

degener. Pale fulvous with deeper concentric circles, jagged at the edge: gills pale ochre, decurrent: stem pale ochre, long, linear, thicker upwards. *Schaeff.* 243.

livescens. Rather moist, livid-grey: gills unequal, mostly entire, contiguous: stem long, fibrous. *Batsch* 67.

cervinus. Oblique, buff: gills narrow, white, unequally decurrent: stem tuberous and downy below. *Hoffm.* 2. 2.

septuneus. Glabrous, pale ochre: gills narrow, distant, often cloven: stem long, dilated at top. *Batsch* f. 118.

alutaceus. Glabrous, pale flesh colour, viscid: gills broadish, unequal. *Batsch* 119.

flabellatus. Deformed, brown or livid: gills dirty white: stem short, round, dirty white. *Schaeff.* 43. 44.

**tremulus*. Black-brown, with livid bands: gills dirty white: stem whitish, full. *Sowerby* 242.

**ostreatus*. Coriaceous, bluish-buff, smooth: gills dirty white: stem short, solid, tough. *Sow.* 241.

F. Cap halved: stem lateral.

**dimidiatus*. Red-brown and grey, semicircular, convex, scaly, fleshy, involute: gills whitish, branched: stem whitish.

Schaeff. t. 233.

aggregatus. Gregarious, brown, with a lobed curled margin: gills reddish, branched, somewhat decurrent: stem thick, curved, full, fulvous-white. *Schaeff.* 305, 306.

**palmaris*. Red-brown, flat, oblong, deflected: gills irregular, 4 in a set. stem reddish white. *Sow.* 62.

petalodes. Violet-brown, undulate at the edge: gills crowded, decurrent, yellowish: stem whitish, full. *Bull.* 226.

**conchatus*. Pale cinnamon, conch-form: gills unequal, decurrent, rich brown: stem short, full. *Bull.* 298.

**fullax*. Reddish-brown, semiorbicular: gills broadish, 4 in a set: stem short, curved, horizontal. *Sow.* 341.

glaucus. Hoary, silky, tender: gills distant, alternately shorter: stem whiter, short, mealy. *Batsch* f. 123.

**resupinatus*. Light brown, flat: gills light-brown: stem very crooked, eccentric. *Batsch* 124.

**buccinalis*. Tender, dead white, membranous: gills greatly decurrent: stem a little bent. *Sow.* 107.

**flabelliformis*. Smooth, mealy, whitish-brown: gills yellowish-brown: stem brown variably eccentric. *Sow.* 109.

**glandulosus*. Dark-brown, large: gills white, with globular glands on their sides: stem short, white. *Bull.* 426.

G. *Exuding a juice when broken or crushed.*

**deliciosus*. Reddish-yellow, nearly flat, involute: gills flame-colour, narrow, regularly branched: stem pale orange, tapering downwards. *Sow.* 202.

**coccineus*. Scarlet, conic, small: stem long, solid, a little crooked, woolly at the base. *Sow.* 197.

**terminosus*. Pale yellowish, depressed in the centre, striate and hairy on the edge: gills unequal, branched, yellowish, juicy: stem yellowish. *Sow.* 103.

**Listeri*. Smooth, whitish, depressed in the centre: gills whitish, numerous: stem white. *Sow.* 104. 245.

**necator*. Flattish, buff, depressed and darker in the centre; the margin involute and villous: gills pale yellow, mostly in pairs: stem obconic. *Bull.* 529.

**zonarius*. Pale brown with darker circles, involute: gills buff-white, variously branched: stem buff-white. *Sow.* 203.

**rufus*. Orange, umbilicate when old: gills thin, narrow, brittle, brownish with yellow juice: stem full, brittle. *Bolt.* 9.

**livens*. Mouse-colour, concave, involute, plaited: gills buff, numerous: stem white, thick. *Batsch.* 202.

**acris*. Brown, viscid, shining, oblique: gills reddish-buff, branching: stem whitish, shining. *Bolt.* 60.

**lactifluus*. Red-brown with milky juice: gills paler: stem reddish, thicker downwards. *Sow.* 204.

**acerrimus*. Emitting a highly acrid juice, brownish, firm: gills brittle, yellowish or flesh-colour: stem full, round, spongy. *Bull. t.* 282.

**ichoratus*. Opake, tender, dry, fulvous-ochre, depressed in the centre, with a saffron raised margin: gills unequal, cloven outwards, pale ochre; stem pale ochre. *Batsch.* 60.

**cimicarius*. Deep chestnut, hollow, involute: gills buff: stem chestnut, darker below: flesh red-brown. *Batsch.* 69.

**piperatus*. Dirty-yellow-white, woolly, depressed in the centre: gills pale pinky-red: stem pale yellow: juice milky, peppery. *Bolt. t.* 21.

**Bulliardii*. Acrid, smooth, pale cinnamon, depressed in the centre, with an inflected crenulate margin: gills in pairs: stem round, thick. *Bull. t.* 292.

H. *Smooth, membranous or fleshy: cap and gill's coriaceous.*

**fragrans*. Brown-white, semitransparent: gills 4 in a set: stem long, brown-white. *Sow. t.* 10.

**melleus*. Pale-buff, darker and rather conic in the centre: gills pale-brown: stem whitish, crooked. *Schaeff.* 45.

- cereolus*. Campanulate, pale sulphur, with a rusty-ochre margin: gills grey-brown: stem long, snowy, full. *Schæff.* 51.
- **lachrymalis*. Ochre-brown, striate, depressed in the centre: gills deep red-brown: stem red brown. *Batsch.* t. 7. 8.
- **auricomus*. Gold-brown, convex, bossed: gills brownish-white, in pairs: stem brown, thicker at top. *Batsch.* 21.
- sandicans*. Convex, shining, yellow, rather viscid: gills brown: stem linear, full, white, annulate. *Schæff.* 21.
- farinosus*. Mealy, conic, depressed, pale ochre, yellowish in the centre: gills pale brown: stem long, whitish, semipellucid, bulbous. *Schæff.* 205.
- collinus*. Convex, bossed, white or pale ochre, shining; gills grey-white: stem long, hollow, semitransparent, white or pale ochre. *Schæff.* 220.
- **clypeolarius*. Convex, bossed, white-brown, mottled: gills white, numerous: stem smooth, bulbous. *Sow.* t. 14.
- **tigrinus*. Whitish, tufted, depressed in the centre: gills yellow or whitish: stem oblique, spotted. *Sow.* 68.
- castaneus*. Smooth, silky, chestnut: gills tender, red-brown: stem linear, white, hollow, elastic. *Bull.* 268.
- **irregularis*. Pale-brown, bossed, irregular: gills pale rosy, broad, distant: stem whitish, cylindrical, flattened and broader at top. *Bolton.* t. 13.
- **elasticus*. Convex, ferruginous: flesh and elastic ring white: gills distant, white: stem unequal, full, elastic, ferruginous. *Bolt.* 16.
- **plumosus*. Mouse-colour, hemispherical, with downy or feathery tufts: gills white, numerous, 3 in a set: stem mouse-colour, tufted. *Bolt.* t. 33.
- nigro-villosus*. Rather moist, downy, blackish: gills at length reddish: stem linear, white. *Bull.* t. 214.
- **fissus*. Convex, scurfy, brown: gills pale red, broad; stem tubular, striate. *Bolt.* t. 35.
- **rubens*. Dark-red, slightly conic: gills ruby-red: stem solid, bright red. *Bolt.* 36.
- ramealis*. Hollow when old, white, brown or reddish in the centre: gills numerous, divided, whitish: stem solid, round, whitish. *Bull.* t. 336.
- **velutipes*. Clustered, reddish-buff: gills pale yellow, 8 in a set: stem yellow and dark brown, velvety below. *Sow.* 263.
- **ardefiacus*. Blue, convex, depressed: gills brown-buff: stem hollow, blue. *Bull.* 348.
- repens*. Yellowish, convex, depressed in the centre: gills yellowish, divided: stem creeping, hollow, fibrous, with red branches. *Bull.* t. 90.
- **crocatus*. Saffron, smooth, dry, conic, with a jagged repand margin: gills few, red-yellow: stem solid, yellow. *Sow.* 381.

- Hyacinthus*. Conic, yellow or greenish-brown: gills paler: stem long, linear, straight, hollow. *Batsch*. t. 28.
- **auratus*. Convex, viscid, orange: gills sulphur: stem hollow, orange. *Bolton*. 67. 2.
- scissus*. Sulphur, rather conic, jagged: gills very broad, narrow at the base, 3 in a set: stem hollow, twisted. *Bolt*. 68.
- superstitiosus*. White, orbicular, dry, with a rather convex margin: gills a little flexuous: stem linear, hollow at top. *Bull*. 56.
- **lacticaulis*. Convex, light brown-buff with a whitish margin: gills brown: stem white, bending, splitting. *Bull*. 102.
- **piluliformis*. Brown, globular, dry. gills white, in pairs: stem white, hollow. *Bull*. 112.
- contortus*. Dry, convex, umbre, with a wart in the centre: gills brittle, whitish: stem spiral, whitish. *Bull*. 36.
- amaricans*. Greasy, yellow-green: gills green: stem yellow, hollow, a little flexuous. *Bull*. t. 30.
- **cyaneus*. Blueish-green, a little convex, deflected at the edge: gills brown-lilac, 8 in a set: stem blueish-green, crooked. *Bolt*. 30.
- Beryllus*. A little conic, yellow, sea green and fibrous outwardly: gills pale red: stem long, yellowish, with a blackish ring. *Schaeff*. 1.
- **moschatus*. With a musky smell, glaucous green, nearly flat: gills white, 8 in a set: stem white, round. *Bull*. 176.
- **sulphureus*. Sulphur, somewhat conic, dry: gills numerous, 3 in a set: stem round, fibrous. *Sow*. 44.
- abbreviatus*. Obtusely conic, ferruginous or footy: gills whitish or yellowish: stem long, whitish, hollow. *Schaeff*. 250. 253.
- subcorneus*. Conic, depressed, chestnut with an orange margin: gills thick, pale: stem linear, flexuous, hollow, pale. *Batsch*. 83.
- **sanguineus*. Blood red, flesh the same: gills rather distant: stem linear, solid, rigid, striate. *Sow*. 43.
- cereus*. Hemispherical, dry, smooth, waxy: gills, thin, distant, yellowish: stem linear, yellow, hollow in the middle. *Jacq. Aust.* 2. t. 15. f. 3.
- **sordidus*. Livid brown, convex to funnel-form: gills brown: stem round, brown, taper upwards. *Sow*. 363.
- flavo-floccosus*. Bossed, sulphur-ochre, with branny tufts, crenulate at the edge: gills whitish: stem subferruginous, branny. *Batsch*. 97.
- **circumscriptus*. Whitish-brown, scurfy, convex, depressed: gills reddish-brown: stem whitish brown. *Batsch*. 98.
- **rosellus*. Brown-red, flesh red: gills kidney-red, few: stem solid, kidney-red. *Batsch*. 99.
- **subcarneus*. Viscid, convex, buff, darker in the centre: gills buff, broad: stem buff, polished. *Batsch*. 100.
- cinerascens*. Glabrous, grey-brown: gills yellowish, 4 in a set: stem fibrous, full, grey-brown. *Batsch*. 101.

- **obsolescens*. Bossed, smooth; fleshy-ochre: gills broadish, livid: stem fleshy-ochre; full; spongy *Batsch*. 102 103.
- eremebundus*. Pale flesh-colour, thickish in the middle; gills unequal: stem fibrous, twisted, hollow. *Batsch*. 104.
- cano-brunneus*. Viscid; tender; grey flesh-colour: gills chestnut, mealy at the ends: stem fibrous; hollow, grey flesh-colour. *Batsch*. 105.
- candido-bulbosus*. Bossed; silky-white: gills livid, white at the ends: stem solid, strong; bulbous. *Batsch*. 106.
- **rimosus*. Conic; bossed; reddish-brown and yellow, striped: gills olive-brown: stem whitish, bulbous. *Sow*. 323.
- bulbularis*. Smooth, bossed, hemispherical, depressed, yellowish: gills livid fulvous, 3 in a set: stem white, silky, full, bulbous. *Batsch*. 108.
- **coriaceus*. Depressed-convex, fleshy-ochre: gills pale brown: stem pale brown, thicker above. *Batsch*. 109.
- **semiglobatus*. Greenish-yellow, hemispherical: gills brown, mottled: stem pale buff. *Sow*. 248.
- **diffusus*. Tender, smooth, livid flesh-colour: gills long, violet-fulvous: stem snowy, long, hollow. *Batsch*. 111.
- **purpureus*. Purplish, somewhat bossed, becoming brown: gills white: stem round, purple. *Bolt.* 14. B.
- **contortilis*. Brown, striate, undulate: gills and shortstem flesh-colour *Bolt.* 41. A.
- granulosus*. Rusty-ochre with white granulations: gills white: stem linear, strong. *Batsch*. 24.
- hispidus*. Chestnut, bristly on the crown: gills pale brown: stem linear, strong, pale brown. *Batsch*. 25.
- fuliginatus*. Conic, with snowy grey and obscure sooty streaks, somewhat scaly: gills and linear stem snowy. *Batsch*. 26.
- **Umbraculum*. Brown, conic, striate: gills dirty white: stem brown, round, downy at the base. *Batsch*. 4.
- murinus*. Depressed, black: gills grey: stem long, linear, strong, grey with black streaks. *Batsch*. 19.
- **farinaceus*. Pinky-brown; bossed; gills pale pink, crenate; stem pale pinky-brown, thicker at top. *Sow*. 208.
- **amethystinus*. Purple, convex: gills purple: stem pale purple, solid, downy at the base. *Sow*. 187.
- **ianthinus*. Rosy-purple: convex, gills rosy-purple: stem hollow, rosy-purple. *Sow* 72?
- laccatus*. Pale flesh colour, striate, convex: depressed in the centre; stem round, straight. *Batsch*. 20.
- majalis*. Convex, dry, pale buff: gills membranous, acute at both ends: stem thickened downwards. *Bull*. 142.

- * *mammosus*. Convex, umbonate, grey-brown: gills yellow-grey: stem grey-brown, solid. *Bolton*. 69.
- * *alliatus*. With a garlick odour, brown-buff, striate and undulate: gills yellow: uff: stem downy, flesh-colour at top, red-brown at bottom. *Sow* t. 81.
- * *alliaceus*. With a garlick odour, dark-brown at top, paler at the edge: gills white: stem blackish. *Jacq. Aust.* 82.
- plicatus*. With a garlick odour, flattish, yellow rufous and plaited on the margin: gills whitish: stem linear, rufous *Schaeff.* t. 99. f. 2. 5. 8.
- Abietis*. A little viscid, depresso-concave: gills whitish: stem long, fulvous. *Schaeff.* 99. f. 1. 3. 4.
- Pineti*. Clustered, depresso-convex, bossed, nearly snowy: gills white: stem linear, dusky. *Batsch.* 9.
- esculentus*. Convex, earthy-brown: gills white: stem slender, hollow, dull ochre. *Jacq. Aust.* 2. t. 14. f. 4.
- clavus*. Pale orange or scarlet, depresso-convex: gills white, in pairs: stem pale orange, slender, solid. *Bolt.* 39. B.
- crenulatus*. Pale cinnamon, white-mealy, crenate: gills and slender hollow stem pale cinnamon. *Schaeff.* 226.
- subcoriaceus*. Rather convex, brownish-ochre: gills livid-brown: stem long, linear, yellowish. *Schaeff.* 203.
- * *atro-rufus*. Dark-brown, convex, bossed: gills reddish-brown: stem brown, elastic, bulbous. *Bolt.* 51. 1.
- * *setaceus*. Carmine, bossed: gills golden: stem long, linear, pale sulphur. *Schaeff.* 222. *Sow* 282.
- clavis*. Yellow-brown: gills with divided branches: stem blackish, round, short, full. *Bull.* 148.
- * *Fibula*. Orange or yellow-brown, hollow in the centre: gills buff: stem orange or yellow. *Sow* t. 45.
- * *confluens*. Brown-buff, concave, with irregular protuberances: stems several, taper downwards. 168.
- * *elixus*. Brown, flat, lobed, undulate: gills buff: stem buff, solid. *Sowerby* 172.
- Campanella*. Conic-convex, bossed, glabrous, striate, saffron: gills pale sulphur: stem slender, saffron. *Schaeff.* 230.
- * *ferruginatus*. Conic, yellowish, ferruginous in the centre: gills pale brownish: stem twisted pale. *Batsch.* 92.
- * *Hypni*. Reddish-brown, conic: gills cinnamon: stem tubular, fox-colour, shining. *Batsch.* 96.
- striatellus*. Conic, white and yellow-grey, closely plaited: gills lead-colour: stem filiform, hollow, white. *Schaeff.* 211.
- Fumus*. Conic, pointed, brown or yellow: gills red: stem long; linear, paler. *Schaeff.* t. 63. 70. 229.
- fuliginarius*. Conic, pointed, black, rough: gills flesh colour: stem blackish, whitish above. *Schaeff.* 40.

contractus. Black-brown, striate, oblong, with a whiter constricted margin: stem fibrous, flexuous, striate, black-brown, with a whiter bristly base. *Batsch*. 85.

glandifer. Oblong, black-striate with brown, with a white constricted margin: gills white: stem black-brown. *Batsch*. 86.

atro-cyaneus. Black with a blue mealiness, closely grooved, whiter at the edge: gills whiter: stem grooved. *Batsch*. 87.

luridus. Rather moist, grey ochre: gills tawny, 2 in a set: stem white: clavate at the base. *Batsch*. 90.

rimosus. Grey-brown, pruinous, with often white cracks: gills white, broad: stem snowy, silky, fibrous. *Batsch*. 206.

**marginatus*. Buff, conic, with a thin involute margin: gills buff, few, narrow: stem buff. *Batsch*. 207.

alterabilis. Yellowish, depresso-conic: gills rusty-brown: stem fibrilous. *Batsch*. 208.

pisceralis. Liver-fulvous, convex becoming hollow: gills thick, few, 3 in a set: stem white at the base. *Batsch*. 211.

chrysodon. White with a yellowish crenate edge: gills sulphur-mealy at the edge: stem yellow mealy at top. *Batsch*. 212.

I. Smooth, tender, mostly pellucid, with the cap striate and plaited, generally of an uniform colour.

**gracilis*. Somewhat conic, elastic, dry: gills few, trifid, red: stem very long, slender. *Bolt. t. 51. f. 1.*

sulpuratus. Yellowish-grey, convex, with broad unequal plaits: gills whitish, 2 in a set: stem sulphur. *Schaeff*. 31.

adustus. Brown, conic, with broad plaits, pale-grey outwards: stem long, linear, hollow. *Schaeff*. 32.

pilosulus. Grey-brown, repand-toothed, with broad plaits at the sides: gills in pairs: stem hairy at the sides below. *Batsch*. 2.

Tintinnabulum. Grey, semiovate, entire, closely striate at the sides: stem long yellowish. *Batsch*. 3.

**minutulus*. Brown yellow, campanulate: gills yellowish, few: stem solid, white, a little curved. *Schaeff*. 308.

hirtus. Somewhat downy, tender, striate, grey: gills in pairs, numerous, divided, pointed at both ends. *Bull*. 138.

**pilosus*. Clothed with stiff hairs, yellow: gills white: stem dark-brown, setaceous. *Sow*. 164.

**androsaceus*. White, membranous: gills white, few: stem setaceous, blackish. *Sow*. 94.

**bicolor*. Brownish: gills few, distant: stem capillary, hard, pellucid, black. *Bolton*. 32.

nothus. Whitish greyish or yellowish, flesh white: gills decurrent: stem slender, solid. *Bull*. 276.

umbellatus. Whitish, rather conic, becoming flat, bossed and plaited: stem slender, hollow: gills distant. *Schaeff*. 309.

- **umbelliferus*. Warty-white, membranous: gills white, broader at the base: stem setaceous. *Bolt.* 39. 4.
- **candidus*. Brownish-white, concave when old: gills white; stem white, solid. *Bolton.* 39. D.
- **radiatus*. Grey with a brown-orange centre, plaited: gills grey: stalk white, hollow. *Bolt.* 39. C.
- **turfaceus*. Warty-brown, with pale striæ, pellucid, twisted: gills rugged: stem bowed. *Bolt.* 41. c.
- **luteo-albus*. Yellow, conic, striate: gills white: stem pale yellow, setaceous. *Bolton.* 38. 1.
- **flavipes*. Brown-white, obtusely conic, striate: gills brown-white: stem yellow, tender. *Schaeff.* 31.
- **Colus*. Conic, white or buff: gills orange or whitish: stem whitish, often bulbous. *Sow.* 33.
- **tenuis*. Whitish, conic, membranous: gills 3 in a set: stem very long, hollow, transparent. *Bolt.* 37.
- **confertus*. White, acutely conic, downy: gills brownish-white, thin, uniform: stem white, taper upwards. *Bolt.* 18.
- **Rotula*. Hemispherical, white, crenate: gills fixed to a collar surrounding the stem: stem black at the bottom, often branched. *Sow.* 95.
- **conicus*. Campanulate, acute, shining, livid, striate: gills white: stem hollow, grey. *Schaeff.* 52. f. 1—6.
- **xylophilius*. Rich nut-brown, flattish, striate: gills brown, broad: stem rich brown, crooked. *Sow.* 167.
- **peronatus*. Brown, hemispherical: gills pale straw-colour: stem yellow-woolly at the base. *Sow.* 37.
- **equestris*. Pale yellow, convex: gills sulphur: stem white or dusky yellow, hollow. *Bolton.* 65.
- **cuspidatus*. Acutely conic, cinnamon: gills dusky-brown: stem brownish, hollow. *Bolt.* 66. f. 2.
- **nuceus*. Red-brown, lobed, involute: gills pale brown, broad: stem pale dead white. *Bolton.* 70.
- griseus*. Flat-conic, bossed, opaque, with broad obtuse plaits: gills 3 in a set: stem fibrous at the base. *Batsch.* 80.
- clavularis*. Greenish-white, nearly hemispherical, umbilicate, obscurely plaited: stem bulbous. *Batsch.* 81.
- Mucor*. Very minute, grey, convex: stem pellucid, fixed to an annular bulb at the base. *Schaeff.* 82.
- saccharinus*. White, flat conic, opaque, loosely plaited, undulate: stem tubulate, reddish. *Batsch.* 83.
- K. Tender, more or less transparent, partly dissolving into a black fluid, or furnished with black gills.
- **appendiculatus*. Pale buff, conic: gills red-brown to dark chocolate: stem whitish, hollow. *Sow.* 324.

- * *papyraceus*. White, hemispherical, membranous: gills 3 in a set, blackish when old: stem hollow. *Bolt.* 11.
- * *umbilicaris*. Coriaceous, whitish, dissolving into a brown fluid: gills 3 in a set: stem solid. *Bolt.* 17.
- * *carbonarius*. Conic, shining, lead-colour: gills black, with a whitish edge: stem tawny below. *Batsch. f.* 6. 91.
- * *subatratus*. Opaque, bossed, closely plaited, greyish ochre: gills black-brown with a whitish edge: stem hollow. *Batsch.* 89.
- * *narcoticus*. Convex, with forked plaits: gills grey, in pairs: stem subulate, white. *Batsch.* 77.
- * *semiovatus*. Light brown, campanulate, smooth: gills grey to black: stem whitish. *Sow.* 131.
- * *tricolor*. Campanulate, brown, striate, smooth: gills black, curled on the edge: stem hollow. *Bolt.* 54.
- * *papilliger*. Campanulate, jagged, grey scurfy, striate on the margin, with a central wart: gills black with a snowy margin: stem pellucid, black, mealy. *Batsch.* 78.
- * *lachrymans*. Dirty brown, convex, woolly: gills brown with black spots: stem whitish. *Sow.* 41.
- L.* Cap opaque, conic: gills sooty when old, and dissolving into a black sanies: stem hollow.
- * *congregatus*. Brown-buff, furrowed at the sides: gills white, grey on the edge: stem white, smooth. *Sow.* 261.
- * *succineus*. Convex-campanulate, jagged, pale orange, striate: gills lead-colour: stem long, white. *Schaeff.* 6.
- * *agrus*. Grey-brown, jagged, slightly striate and plaited: gills black-brown: stem long, white. *Schaeff.* 17.
- * *tortus*. Pale flesh colour, jagged, crowdedly striate: gills black: stem long, white, twisted, strong. *Schaeff.* 201.
- * *cinereus*. Warty-grey, striate, brown in the centre: gills grey, not reaching the stem: stem white. *Bolt.* 20.
- * *margaritaceus*. Silvery mixed with purple, striate: stem round, dirty, thicker below. *Schaeff.* 216.
- * *sinetarius*. Ovate, grey-brown, scaly, striate: gills uniform: stem white, thick towards the base. *Sow.* 188.
- * *vallantii*. Ovate, grey, striate, becoming tawny: gills ferrulate: stem linear, white. *Vaill. Par. t.* 12. f. 10. 11.
- * *balanus*. Pale ochre, becoming brownish torn and striate: gills reddish: stem slender, whitish. *Schaeff.* 66.
- * *porcellaneus*. Warty-white with purplish streaks and yellowish scales: gills pointed: stem flexuous. *Schaeff.* 47. 48.
- * *cylindricus*. Whitish, cylindrical, with brown scales: gills pinky: stem white, bulbous. *Sow.* 189.
- * *siniputris*. Pale brown, conic, obtuse: gills dark brown to black: stem white. *Bull.* 66.

- **stercorarius*. Convex, grey, scaly, becoming revolute and torn: gills grey to black: stem thicker below. *Sow.* 262.
- **campanulatus*. Conic, brown and lead-colour, plaited, striate: gills dirty grey: stem whitish-grey. *Bolt. t.* 31.
- **atramentarius*. Brown, spotted, rather moist, plaited: gills whitish: stem linear. *Bull.* 164.
- Digitalis*. Livid-grey, crenulate, striate, with a ferruginous crown: gills black: stem ascending, very pale. *Batcb.* 61. 1.
- **picaceus*. Grey with whitish flakes, conic when young: gills 3 in a set: stem grey taper upwards. *Sow.* 170.

L. Stemless.

- **glandulosus*. Dark brown, large: gills white, with globular glands: stem hardly any, white. *Bull.* 426.
- **depluens*. Pale grey-brown, cracked, silky: gills watery-brown: stem hardly any, light brown, clothly. *Bolt.* 72.
- **applicatus*. Greenish-grey: gills paler, diverging from the centre. *Sow.* 301.
- dichrous*. Tawny and blackish, with a repand-lobed margin: gills bifid, pale sulphur-ochre. *Schæff.* 246.
- violaceo-fulvens*. Violet-fulvous, coriaceous, rough, semiorbicular: *Batcb.* 39.
- Lingua*. Semiorbicular, fulvous: gills purple. *Mich.* 65. 3.
- fulvescens*. Coriaceous, villous, whitish: gills fulvous. *Vaill.* 1. 4.
- caespitosus*. Spatulate, convex, yellow, smoothish: gills earthy-brown. *Mich. gen. t.* 65: f. 5. 6.
- **niveus*. Snowy, dry, glabrous, with an unequal margin: gills pale ferruginous. *Sow.* 97.
- mollis*. Deformed, red-buff, a little woolly: gills reddish-ochre, in pairs. *Sow.* 98.
- **planus*. Mouse-brown, flat, with darker concentric lines near the undulate margin: gills mouse-brown. *Bolt.* 723

1946. MERULIUS. *Fungus* with veins underneath.

A. On a stem.

- **cornucopioides*. Dull cinnamon, lobed, curled: veins running down to the root: stem grooved. *Bolton.* 8.
- umbonatus*. Grey, bossed: veins white: stem grey, round. *Jacq. Aust. 2. t.* 16. f. 1.
- Cattus*. Funnel-form, wood-colour: veins decurrent: stem round hollow. *Bull.* 208.
- **infundibuliformis*. Grey mouse-colour, funnel-form: veins silvery: stem compressed, hollow. *Bolt.* 34.
- **undulatus*. Funnel-form, undulate, golden and veined without, dull brown within. *Bolt. t.* 105. 2.

- agaricoides*. Funnel-form; yellowish, zoned, soft: stem hollow.
Bull. 208.
- **cantharelloides*. Brown: stem orange. Sow. 47.
- **aurantiacus*. Dry, orange: veins red: stem round, linear full.
Jacq. Aust. 2. t. 14. f. 3.
- crispus*. Funnel form, curled, coriaceous: stem solid: Bull. 465.
- **Cantharellus*. Yellow, becoming hollow, with an irregular curled margin: veins decurrent: stem solid. Sow. 46.
- **Squamula*. Whitish, convex: veins white, uniform: stem brown, downy. Sow. 93.
- inflexus*. Funnel-form, yellow, inflected: veins yellowish decurrent: stem golden, thicker in the middle. Vaill. 11.
- **muscigenus*. Semicircular, pale brown: stem lateral, thick, short.
Bull. 288.
- pezizoides*. Funnel form, nearly stemless; the disk spreading, sinuate-dotted: veins obsolete. Schaeff. 165. 166.
B. Stemless.
- **alneus*. Rather convex, semicircular, white-downy, repand: veins brown-buff, in pairs. Sow. 183.
- **betulinus*. Brown-buff, downy, zoned, irregularly circular: veins reddish-brown: branched. Sow. 182.
- **querneus*. Brown, soft, leathery, zoned, irregularly circular: veins brown, undulate, anastomosing. Sow. 181.
- squamosus*. Membranous, rusty-red, scaly: veins buff. Schrad.
- **membranaceus*. Membranous, smooth, lobed, buff: veins darker, much branched, anastomosing. Sow. 348.
- alutaceus*. Coriaceous, grey, erect, villous. Bull. 394.

1947. BOLETUS. *Fungus* with pores underneath.

- A. On a stem.
- **communis*. Deep scarlet, convex: pores yellow: stem reddish-yellow.
Sowerby. 225.
- **bovinus*. Smooth, cushion-like, margined; pores compound, acute; porules angular, shorter. Sow. 175.
- **rubeolarius*. Dark-green, hemispherical: pores deep crimson: stem bulbous. Sow. 250.
- **perennis*. Flattish, tawny with darker zones: pores ochre-brown: stem tawny. Sow. 192.
- **subsquamosus*. Whitish, flattish, striate, scaly: pores deformed, snowy: stem brownish, taper. Stack. 6.
- **nummularius*. Reddish horny, depressed in the centre: tubes short, buff: stem black at the base. Sow. 89.
- **piperatus*. Yellow, smooth: tubes decurrent, red or yellow-red: stem dirty yellow. Sow. 34.
- **leptacephalus*. Tawny-bay, flat, thin: stem short, brownish: tubes white. Jacq. Austr. 1. t. 12.

- viscidus*. Viscid, cushion-like: tubes round, convex, immersed, distinct: stem jagged. *Schaeff.* 103, 104.
- granulatus*. Viscid, cushion-like: pores round and rather angular, truncate, with the angle granular.
- **luteus*. Viscid, cushion-like, deep buff, striate: tubes round, deep yellow: stem annulate. *Sow* 265.
- mutabilis*. Brown, cushion-like: tubes yellow or red: stem thick, short, brown or red. *Schaeff.* 108, 133-135.
- ferruginatus*. Ochre-brown, cushion-like, brown: pores rusty-brown: stem rather ferruginous. *Bull* 451. 2.
- tuberosus*. Cushion-like, straw colour: pores yellow: stem short, tuberous at the base. *Bull.* 100.
- cereus*. Cushion-like, wax colour: tubes yellow: stem whitish. *Bull.* t. 385.
- **aurantiacus*. Red-orange: tubes whitish or pale brown: stem rough, with brown marks. *Sow* 110.
- supinus*. Chestnut, with a ribbed and sinuate margin: pores whitish. *Flor. Dan.* 894.
- **biennis*. Funnel-form, crenate, pale rufous, whitish on the margin: flesh white, leathery. *Sow* 191.
- lacteus*. Convex, peltate, orbicular, brown: pores catenulate: snowy: stem linear, snowy. *Batsch.* 42.
- **frondosus*. Greyish-brown, lobed, imbricate: tubes whitish: stem black at the base. *Sow* 87.
- **rugosus*. Red, shining, semicircular: tubes whitish: stem deep red, taper. *Sowerby* 134.
- **betulinus*. Pinky-brown, incurved: tubes pure white, short: stem short, black. *Bolton* 159.
- **cristatus*. Golden yellow, deformed, jagged, curled: tubes dirty white: stem brown. *Schaeff.* 316, 317.
- **substrictus*. Dirty yellow, convex, thin: pores pale yellow, angular: stem dirty yellow, tough. *Bolton.* 170.
- fragilis*. Pale yellow, peltate: pores pale sulphur-green: stem thick, white, roundish. *Schaeff.* 121, 122.
- **subtomentosus*. Yellow, somewhat downy: pores rather angular, tawny: stem yellow. *Bull.* 490. 3.
- **squamosus*. Pale buff, scaly: pores deformed, oblong, flexuous, snowy: stem lateral. *Sowerby.* 266.
- **lateralis*. Dead yellow, thin, smooth: tubes yellow, short: stem yellow, lateral. *Bolton.* 83.
- Lapidum*. Fleishy, convex, brown above, yellow beneath: flesh white: stem a little rugged, whitish. *Schaeff.* 105.
- obliquatus*. Bay, shining, somewhat corky, oblique: tubes white-ferruginous: stem lateral. *Bull.* 7-495.
- **lactifluus*. Red-buff: tubes yellow: stem bright yellow: juice milky. *Schaeff.* 133.

B. Stemless.

- **pelloporus*. Flesh-colour, sinuate: tubes greenish-white. Sow. 230.
- **albidus*. White, tender, cushion-like Sow. 226.
- **salicinus*. Semicircular, whitish, smooth, soft, leathery: tubes white to tawny, very short. Sow. 227.
- **suaveolens*. Smooth, semicircular, white or tawny: flesh yellow-brown: tubes white. Sow. 248.
- **carpineus*. Reddish-buff, crenate-lobed, striate: pores blueish-grey. Sow. 231.
- **angustatus*. Rich purple, zoned, lobed, convex: pores dull yellow. Sow. 193.
- **sinuosus*. Pale buff to blackish, convex and sinuate on the surface: pores yellow or brown. Sow. 194.
- **impuer*. Rich tawny, convex, crenate-lobed: pores tawny brown. Sow. 195.
- **lachrymans*. Coriaceous, semioval, orange, with reticulate pores and broad white border. Sow. 113. Dry rot.
- Favus*. Cushion-like, rough, with erect branched bristles: pores spread, angular. Bull. 421.
- **suberosus*. Cushion-like, white, even, spongy: pores white, deformed. Sow. 288.
- lippsiensis*. Cushion like, glabrous, with convex additions and tubercles and a sloping fasciate border. Batsch 130.
- nitens*. Cushion-like, smoothish, shining, more or less red: pores white or yellowish. Schaeff. 109. 110.
- **fomentarius*. Cushion-like, uneven, obtuse, brown: pores round, equal, glaucous or rusty. Sow. 133.
- **igniarius*. Cushion-like, red brown to blackish. pores very minute, yellow to red brown. Sow. 131. Touchwood.
- **velutinus*. Irregular, villous, grey to black: tubes brown-yellow: pores pale brown. Sow. 345.
- **arboreus*. Buff, irregular, with a fringed margin, gelatinous when wet: pores reddish-brown. Sow. 346.
- sanguineus*. Rather membranous, red. pores impalpable.
- Calceolus*. Nearly stemless, hollowed, with a raised upward border, Bull. 300.
- salignus*. Suaveolent, whitish, pure white within, indeed, smooth above: tubes very short. Bull. 433. 1.
- fraxineus*. Halved, glaucous, yellowish within, tawny beneath, edged with white: tubes short. Bull. 433. 2.
- **sulphureus*. Pale sulphur with bright aurora zones and marks, lobed, striate. Sow. 135.
- **labyrinthiformis*. Kidney-form, wrinkled, zoned, brick-red: tubes red brown, long. Bolt. 160.

- **unicolor*. Woolly, grey-brown with darker zones: tubes grey-brown, short, labyrinth-like. *Sow.* 325.
- decipiens*. Coriaceous, halved, villous, zoned: tubes reddish-grey. *Bull.* 408.
- imbricatus*. Imbricate, yellowish, fringed. *Bull.* 366.
- **abietinus*. Depressed, wrinkled, striped, whitish, woolly: pores angular, purple-brown, toothed. *Dicks.* 9. 9.
- **versicolor*. Small, downy, with differently coloured zones: pores white. *Sow.* 229.
- fuscus*. Membranous, rather corky, smooth, brown, zoned: pores short, grey, nearly circular. *Batsch.* 127.
- adustus*. Brownish with a black border: pores very thin, reticulate. *Bull.* 445. 1. B.
- **cornutus*. Leathery, with tongue-shaped lobes. *Bolton.* 76.
- **Medulla panis*. Crustaceous, white, diffuse, difform: pores small, oblique. *Sow.* 326.
- **hybridus*. White, cottony, diffuse, irregular: pores long, tubular, cylindrical, pale buff. *Sow.* 289.
- **hepaticus*. Tubes distinct: thick, soft, red, lobed: pores round, pale yellow. *Sow.* 58.
- **pectinatus*. White or buff becoming brown: tubes oblique, cohering at the base. *Boit.* 74.

1948. THÆLÆPHORA. *Fungus* corky, warty and bearing the fructification underneath.

- **caryophyllæa*. Nearly sessile, imbricate, rich brown, with floccular radiate striæ and a white edge. *Sow.* 213.
- **pulverulenta*. Nearly circular, crenate, reddish-brown with white mealiness. *Sow.* t. 214.
- **tremelloides*. Gelatinous becoming horny, grey-brown, zoned, villous, blackish underneath. *Sow.* 290.
- **reflexa*. Imbricate, villous, yellow, with zones of various colours, deep yellow beneath. *Sow.* 27.
- **ferruginea*. Rusty red, zoned, wrinkled; with a lighter margin; dull brown beneath. *Sow.* 26.
- **nicotiana*. Thin, flexible, bright-brown, with a yellow lobed curled margin, paler and veined beneath. *Sow.* 25.
- **papyrina*. Membranous, soft, greyish-white, zoned; beneath pitted, reddish-buff. *Sow.* 349.
- **corticalis*. Circular or oblong, concave, brownish; beneath whitish, soft, pitted or warty. *Bull.* t. 436. 1.
- **phylactæris*. Membranous, plaited, yellow-white changing to dark brown, downy beneath. *Bull.* 436. 2.
- **aurantiaca*. Membranous, rich orange, with stellate radii, nearly circular, woolly. *Sow.* 291.

**cinerea*. Membranous, crenate, dark grey, spotted, with a paler margin. Sow. 388. 3.

crocea. Thin, brittle, uniformly saffron. Schrader.

1949. HYDNUM. *Fungus* prickly underneath.

A: On a stem.

**imbricatum*. Imbricate, convex, red-brown with darker scales: stem pale brown or brownish-white. Sow. 73.

**sublamellosum*. Flattish, white, depressed, pinky, undulate: prickles white, toothed: stem light buff. Sow. 112.

zonatum. Coriaceous, conic excavated, black, zoned: prickles grey-white: stem short, black. Schaeff. 272.

**repandum*. Convex, lobed, cinnamon: prickles oblique, soft, bright cinnamon: stem round. Sow. 176.

**coralloides*. Whitish, much branched; branches compressed, deflected at the ends: prickles incurved. Sow. 252.

**floriforme*. Coriaceous, turbinate, velvety, becoming purplish: prickles pale red: stem black. Schaeff. 146.

hybridum. Reddish or black, funnel-form, crenate. Bull. 451. F. I.

cyathiforme. Gregarious, funnel-form, zoned, fibrous, elastic: stem short. Bull. 156. 419.

suberosum. Rather woody, coloured, plaited above, with an acute or curled margin: stem obconic. Batsch. 45.

glandestinum. Flethy, whitish, obtuse, glabrous above: stem conic. Schaeff. 144. 145.

**Auriscalpium*. Halved, tough, dark-brown, zoned: prickles whitish, unequal: stem brown, hairy. Sow. 267.

gelatinosum. Halved, gelatinous, glabrous. Jacq. Aust. 239.

B. Stemless or nearly so.

**crispum*. Coriaceous, clustered, red-brown, lobed: prickles tawny-red, imbricate. Schaeff. 147. 1.

**Daviesii*. Imbricate, yellow-brown with darker zones, crenate: prickles brownish. Sow. 85.

**Erinaceus*. Convex, heart-shaped, pendulous, whitish: prickles imbricate, yellowish-brown. Bull. 34.

**minimum*. Roundish, leathery or woody: prickles soft, pale to strong golden, becoming grey. Bolton. 171.

**diaphanum*. White, membranous: tender, spread: prickles short, white, undivided. Withering.

**Barba Jovis*. Tawny-white, membranous, spread: branched and toothed at the ends. Sow. 328.

**membranaceum*. Dark ferruginous, membranous, spread: prickles glandular, hairy at the ends. Sow. 327.

1950. PHALLUS. *Fungus* reticulate above, even beneath: seeds in the reticulations.

fungoides. Acutely lobed, nearly glabrous: stem glabrous, tapering upwards. *Mich. gen.* 86. 9.

undosus. Conic, curled on the edge, with undulate anastomosing wrinkles: stem tessellately grooved. *Mich.* 84. 2.

Gigas. Conic, slightly undulate at the edge: plaits flexuous, anastomosing: stem clavate, scaly. *Mich.* 84. 1.

Rete. Conic, crenate-sinuate at the edge: reticulations anastomosing, decurrent: stem clavate, entire. *Mich.* 84. 3.

**impudicus*. Conic, crenulate on the margin, perforated at top: stem volvale at the base. *Sow.* 329.

**caninus*. Conic, narrow, acute, imperforate cellular: stem volvale. *Sow.* 330.

Mokusin. Acute, 5-parted, with connivent segments: stem 5-sided, volvale at the root. *Linn. Suppl.*

Anastomosis. Oblong, with the margin attached: plaits decurrent, anastomosing: stem thick. *Mich.* 85. 3.

**esculentus*. Ovate, cellular, attached at the margin: plaits undulate, anastomosing. *Sow.* 51. *Morel.*

1951. **HELVELLA**. *Fungus* inflated, deformed or concave, smooth, elastically ejecting the seeds from the upper surface

**gelatinosa*. Convex, brown yellow, deflected, plaited: stem tubular, brownish-yellow. *Sow.* 70.

**fuliginosa*. Inflated, angular, plaited, blackish: stem tubular, greyish, furrowed. *Sow.* 154.

brunnea. Deflected, wrinkled, chestnut brown: stem tubular, smooth. *Schaeff.* 159.--161.

**Mitra*. Deflected, adnate, lobed, deformed, brownish becoming black: stem furrowed, brown. *Sow.* 39.

fulcata. Deflected, 2-lobed, adnate: stem solid, cracked, regularly grooved. *Aët. Stock.* 1783. t. 10. f. 1.

**nana*. Lobed, plaited, white above, brown beneath: stem round, white, smooth. *Stackh.* 8. 9.

atra. Deflected, 2-lobed, loose, rough underneath: stem solid. *Flor. Dan.* 534. f. 1.

**clavata*. Ovate, oblique, yellow, deflected: stem somewhat compressed, flexuous. *Schaeff.* 149.

**spatulata*. Yellow, inflated, compressed, oblique: stem round, wrinkled, white. *Sow.* 35.

**fibuliformis*. Ochre above, blackish underneath: stem short, black-brown. *Bolt.* 176.

**Relhani*. Yellow-brown with reddish striæ, conic, silky: stem tubular, round, yellow. *Sow.* 11.

**infundibuliformis*. Depressed in the centre, grey-brown, lighter and striate beneath: stem tawny. *Sow.* 153.

- **pannosa*. Woody, brown-buff, funnel-form, irregularly lobed, toothed. Stem greenish grey, thicker above. Sow. 155.
- **floriformis*. Coriaceous, brown grey, plaited and concave in the middle: stem solid, inversely conic. Sowerby 75.
- **calyciformis*. Ochre, glabrous, granular-scurfy beneath: stem short, flesh colour, granular-scurfy. Batsch. 135.
- **aeruginosa*. Diformed, green, very small. Sow. 347.
1952. *ATRACTOBOLUS*. Fungus sessile, cupular, with a lid, ejecting lufiform vesicles bearing the seeds.
- annularis*. *Attractobolus*. Batsch. t. 26. 139.
1953. *TYMPANIS*. Fungus cup-shaped; the cupola volvate above: seeds dry, moultering to powder.
- saligna*. *Tympanis*. Tode Fung. t. 4. f. 37.
1954. *MYROTHECIUM*. Fungus sessile, cup-shaped; the cupola volvate above: seeds rather viscid.
- roridum*. Cottony, snowy: cases hemispherical, connate, rorid, the margin continued to the curtain: seeds turgid, brown. Tode. Fung. 5. 38.
- inundatum*. White, cottony-membranous: cases many-shapped, connate, inundated; the margin continued to the curtain: seeds blackish-green. Tode. 5. 39.
- hercoreum*. Membranous, black, clustered: seeds turgid, brownish-white. Tode. 5. 40.
- hispidum*. Leathery, bristly, brown, scattered; margin of the cupola continued to the curtain: seeds brownish, diaphanous. Tode. 5. 48.
- dubium*. Parabolic, clustered: cupola without a bark or marginal curtain: seeds blackish, opaque. Tode. 5. 42.
1955. *XYLOSTROMA*. Fungus leathery, expanded, deformed, penetrating, smooth, even: seeds globular, minute, among the fibres.
- **giganteum*. *Xylostroma*. Sow. 358. Oak leather
1956. *HELOTIUM*. Fungus with a fleshy-membranous convex-hemispherical cap, smooth underneath and bearing naked seeds.
- glabrum*. Cap flat, glabrous: stem glabrous. Tode. 4. 35.
- cucullatum*. Semioval, rusty-yellow; stem linear, slender. Batsch. 132.
- unctuosum*. Unctuous at top, with a callous margin: glabrous beneath: stem glabrous. Batsch. 134.
- hirsutum*. Hairy at top: stem hairy. Tode. 4. 36.
- **agaricoides*. White: stem long hairy and somewhat tuberous at the base. Sow. 57.
- **aureum*. Yellow, thickish, nearly sessile. Sow. t. 150.

1957. *CLAVARIA*. *Fungus* oblong, simple or branched: seeds dispersed over the whole surface, or collected in tubercles opening at top.

A. *Simple*:

- **acuta*. Sharply conic, rather mealy, whitish, opaque: stem transparent. *Sow.* 333.
- **obtusula*. Clavate, obtuse, solid, whitish. *Sow.* 334.
- **minuta*. Clavate, rather obtuse, scarlet, *Sow.* 391.
- **gracilis*. Swelling upwards, flesh-colour. *Sowerby* 332.
- **Ardeni*. Tawny, downy, dilated upwards, acute becoming truncate, a little flexuous at bottom. *Sow.* 215.
- **gyrans*. Cylindrical, white, rather taper at the ends: stem capillary, pellucid. *Bolt.* 112.
- **phacorrhiza*. Head subulate, whitish: stem slender pale brown: root lentil-shaped. *Sow.* 233.
- **epiphylla*. Clavate, obtuse, hollow, red: stem pale yellow, cylindrical. *Sow.* 293.
- **cylindrica*. Clavate, greyish or buff, obtuse, hollow: stem slender, taper downwards. *Sow.* 90.
- **ferruginea*. Agaric-like, obtusely conic, ferruginous, pithy within: stem slender, roughish above. *Sow.* 84.
- **herculeana*. Undivided, solid, not granular. *Sow.* 277.
- **pistillaris*. Nearly cylindrical, generally undivided, tubular, brittle, smooth. *Sow.* 253.
- **elveloides*. Clustered, sometimes united at the base, oblong-clavate, full, watery-yellow. *Schaeff.* 164.
- **fusiformis*. Clustered, rough, tapering to both ends, yellow with brown tips. *Sow.* 234.
- **rugosa*. Clustered, round, tapering to both ends, yellow with brown tips. *Sow.* 235.
- **ophioglossoides*. Clavate, entire, compressed, woolly black, white within. *Sow.* 83.
- **Herbarum*. Clavate, smooth, uniformly black. *Sow.* 353.
- **fimbriata*. Tubular, white above, greenish below. *With.*
- **clavata*. Clavate, whitish or buff, oblong-oval: stem crooked: round, bulbous at the base. *Sow.* 159.
- **capitata*. Head ovate, chestnut, dotted: stem yellow, round: root voluate. *Bolton.* 130.
- **parasitica*. Clavate, oblong, cylindrical, obtuse, warty, black: stem round. *Willd.* 7. 17.
- **militaris*. Clavate; entire: head scaly. *Sow.* 60.
- **cupressiformis*. Simple, acutely conic, black: stem thicker, clothed with black hairs at the base. *Bolt.* 129. 9.
- **tuberculata*. Nearly of equal thickness, pale orange, entirely studded with tubercles. *Schaeff.* 218.

**tuberosa*. Clustered, subulate, orange: root tuberous, fibrous.
Sow. 199.

B. *Branched*.

**elegans*. Slightly branched, erect, white. *Bolt*. 115.

**farinosa*. White, mealy, with short truncate crenulate branches.
Sow. 308.

**laciniata*. Buffy-white, flat, membranous, laciniate, ciliate above;
stems purplish-brown. *Sow*. 158.

**cornea*. Simple or cloven, somewhat pointed, red-orange, horny and
brittle when dry. *Sow*. 40.

**anthrocephala*. Tufted, leathery, fan-shaped, lobed, rusty-red or
brownish: stems round, hairy. *Sow*. 156.

**coralloides*. Branches much branched, unequal, forming close tufts.
Sow. 278.

**fastigiata*. Branches much branched, obtuse, flat-topped, white
yellow or purple. *Bolt*. 112. 2.

**coriacea*. Leathery: branches coral-like, depressed, striate, fringed
at top, grey becoming black-brown. *Bolt*. 452. 2.

**muscoides*. Branches mostly forked, much branched, pointed, une-
qual, yellow. *Sow*. 157.

**digitata*. Woody, black: branches slender at the base, finger-like at
top, tubercled. *Sow*. 69.

**hypoxylon*. Branches palmate, compressed, white powdery becoming
black at top, tubercled. *Sow*. 55.

**hypotrichoides*. Much branched, forked, black-brown with the ends
white: tubercles lateral. *Sow*. 200.

1958. CLATHRUS. *Fungus* roundish, cancelled with fleshy
branches interwoven with each other.

**cancellatus*. Clathrus. *Bull*. 441.

1959. PEZIZA. *Fungus* concave, hemispherical or camp-
nulate, without visible fructification.

A. *Sessile*.

**cuticulosa*. Glass-shaped, thin, white. *Dicks*. 9. 11.

**sessilis*. Subglobular, white, cottony, thick. *Sow*. 389. 1.

**albida*. Sawcer shaped, pinky white, smooth. *With*.

**comitalis*. Sawcer-like, pinky white within, greenish-white
without; margin crenate. *Sow*. 118.

**Abbotiana*. Yellow within, blueish without. *Sow*. 389. 8.

**argillacea*. Hemispherical-globular, depressed, buff, with a small
entire mouth. *Sow*. 148.

**coronata*. Inversely ovate, inflated, grey-white; margin erect: tooth-
ed, *Mich*. 86. 2.

**pinguis*. Cup-like, red, hoary-downy. *Bull*. 396. 1.

**papillaria*. Sawcer-shaped, buff or brownish within, paler without;
margin ciliate, papillous. *Sow*. 177.

**cellularia*. Campanulate, brown-buff, villous, reddish-white without; margin spread. *Sow.* 91.

Labellum. Hemispherical, brittle, wax-colour, diaphanous, ciliate, hairy outwardly. *Bull.* 204.

**lanuginosa*. Ovate, buff or yellow, brown and woolly outwardly. *Flor. Dan.* 779. f. 2.

**vesiculosa*. Spherical and depressed when young, brown-yellow, buff on the outside. *Sow.* 4.

**pineti*. Concave, becoming nearly flat, grey-white, with a brown-yellow margin. *Batsch.* 140.

cerea. Pellucid, wax-colour; margin jagged. *Bull.* 44.

**chrysocoma*. Dull-yellow, concave, smooth, brittle, thin. *Sow.* 152.

**marginata*. Nearly globular, brown within, with a flat crenulate white margin. *Sow.* 16.

finetaria. Sawcer shaped, fleshy, brittle ochraceous, with a callous crenulate margin. *Bull.* 376. 1.

callosa. Bluish, shield-like, somewhat villous, smooth within; margin callous. *Bull.* 416. 1.

**cochleata*. Thin, brittle, snuff-colour, paler without, the sides curling in like a shell. *Sow.* 5.

**fusca*. Concave, with a strong-brown disk; margin raised, pale olive, entire, thin. *Bolt.* 109. 2.

**scutellata*. Flat, orange-red, buff without; margin convex, hairy. *Sow.* 24.

**domestica*. Ovate, fox-colour, very hairy. *Sow.* 351. 352.

hirta. Hemispherical, tawny, hairy, scarlet and glabrous within.

Hedw. cr. 2. t. 3. f. B. 1—6.

**bicolor*. Orange or yellow, whitish and woolly on the outside, with or without a stem. *Sow.* 11367. 7.

viridans. Hollow, with a green margin. *Hedw.* 2. 6. B.

ciliata. Fulvous, smooth without, ciliate. *Bull.* 438. 2.

granulata. Fulvous, granular without, naked. *Bull.* 438. 3.

**punicea*. Yellow-red wrinkled within, paler on the outside; margin thick, a little raised. *Batsch.* 220.

**coccinea*. Scarlet within, buff without. *Sow.* 78.

**hispida*. Hemispherical, smooth glaucous and whitish or glaucous within, brown bristly without. *Sow.* 147.

**hybrida*. Hemispherical, tawny within, darker and hairy on the outside. *Sow.* 369. 1.

**cartilaginea*. Flat, glabrous, scarlet. *Sow.* 369. 2.

**viridis*. Concave, dark-green, pale green and woolly without; margin broad, black. *Bolt.* 109. 1.

**caerulea*. Flattish, blue, with an obtuse ciliate margin, black and smooth without. *Bolt.* 108.

**hydroides*. Depressed sphaeroid, lead-colour within, rough and pale yellow without. *Sow.* 178.

- **violacea*. Hollow, violate within dotted with black, margin and outside granular. *Bull.* 438. 4.
- **hepatica*. Dark purple or olive-colour, with a hollow dot in the centre. *Batsch.* 138.
- **cinerea*. Grey, reflected; margin lobed, curled. *Sow.* 64.
- Diadema*. Black, globular, rugged outwardly, with a contracted margined crenate mouth. *Mich.* 86. 18.
- **atra*. Totally black, flattish. *Sow.* 369 8. 9.
- B. *On a stalk.*
- coriacea*. Funnel-form, stem twisted. *Bull.* 438. 1.
- Sceptrum*. Depressed-globular, grey, ribbed without, with a contracted toothed mouth; stem long, white. *Mich.* 86. 3.
- bulbosa*. Rounded, dotted with white outwardly, black within; stem bulbous, long. *Hedw.* 10. C.
- **nivea*. Snow-white, funnel-form, villous, stem short. *Sow.* 65.
- **rimosa*. Grey-white, at length cracked; stem short. *Sow.* 369. 12.
- **muralis*. Dirty buff, irregular; stem short. *Sow.* 251.
- **calyciformis*. Glass-shaped, tawny, margin and stem white. *Batsch.* 135.
- **truncata*. Obconic, truncate, white becoming yellow above; margin with brown dots. *With.*
- **punctata*. Turbinate, truncate, disk white dotted; stem grey or blackish. *Sow.* 54.
- **stipitata*. Hemispherical when young, brown downy on the outside; stem long, downy. *Sow.* 38.
- **melaestoma*. Goblet-shaped, woody, lead or blackish within, brown hairy without; margin entire. *Sow.* 149.
- **tuberosa*. Hemispherical, brown without, paler within; base of the stem black tuberous. *Sow.* 63.
- **radicata*. Hemispherical, brown, smooth; stem taper; root simple, fibrous. *Bull.* 485. 2.
- **minutula*. Nearly flat, brown; stem short. *Batsch.* 217.
- **cupularis*. More than hemispherical, pale buff; margin crenate: stem short, thick. *Mich.* 86. 2.
- **citrina*. Yellow; stem short or none. *Sow.* 151.
- **leporina*. Orange or brown-yellow, concave, oblique, involute, rough on the outside; stem short, thick. *Sow.* 79.
- **epidendra*. Leathery, glass-shaped, carmine, whitish or flesh-colour and woolly without. *Sow.* 13.
- **Tuba*. Yellow, margin flat; stem filiform. *Bolt.* 106. 1.
- **aurea*. Gold-yellow, flat; stem short. *Sow.* 150.
- **inflexa*. Nearly hemispherical, pale buff; margin inflected; stem incurved. *Bolton.* 106. 2.
- **ochroleuca*. Funnel-form, leathery, dusky ochre; stem blackish at the base. *Sow.* 115.

**cyathoides*. Glass-shaped, yellow; margin obtuse, erect: stem short. Sow 369. 4.

**radiculata*. Hemispherical, leathery clustered, yellow, whitish woolly and veined without: stem whitish Sow. 114.

**Calyculus*. Dark yellow, expanded: stem firm. Sow. 116.

**fructigena*. Pale yellow: stem taper, flexuous. Sow. 117.

C. *Gelatinous*.

**Acetabulum*. Glass-shaped, brown, angular, with branched veins on the outside: stem grooved. Sow. 59.

porphyrea. Cylindrical, truncate, red-fulvous and polished within, flat-fulvous without. *Batsch* 53.

**polymorpha*. Turbinate, becoming flat, black, wrinkled outwardly. *Schaeff.* 158.

**Auricula*. Concave, wrinkled, ear-shaped, brown. *Blackw.* 334.

gelatinosa. Ferruginous, flattish, tapering to a short somewhat lateral stem. *Bull.* 460. 2.

1960. VOLUTELLA. *Fungus* salver-shaped, stipitate; upper surface of the cap dotted umbilicate, the margin at first revolute: seeds similar: stem short setaceous.

volvata. Coriaceous, scattered, with a distant separating marginal curtain: seeds greasy. *Tode* 5. 43.

nuda. Naked, scattered, very fugacious: cap flat, naked, at length disk-like. *Tode* 6. 44.

1961. EPICHRYSUM. *Fungus* rounded, concave: seeds globular, tail-less, attached to a branched thread creeping within.

argenteum. *Epichrysum*. *Tode* 2. t. 8. f. 60.

1662. CYATHUS. *Fungus* campanulate or cylindrical, bearing lentiform capsules within.

**lentiferus*. Pale, roughish mouse-colour without. Sow. 28.

**friatus*. Dark brown, villous, striate within. Sow. 29.

**lavis*. Yellow, inflated, smooth within. Sow. 30.

**dentatus*. Pale buff, margin 5-toothed. *With.*

**minutus*. Yellowish, stem purplish. Sow. 239.

crucibulum. Inflated, golden, glabrous. *Schaeff* 179.

1963. ASCOBOLUS. *Fungus* hemispherical, containing oblong vesicles, somewhat immersed in its disk, which elastically eject the seeds.

**stercorarius*. *Ascobolus*. *Sowerby* 389. 3.

1964. THELEOBOLUS. *Fungus* sessile, gelatinous, solid, ejecting a membranous mats containing the seeds.

**stercoreus*. *Theleobolus*. Sow. 18.

1965. SPHÆROBOLUS. *Fungus* sessile, globular-concave, with a radiate or entire mouth, and ejecting a globular capsule.

**stellatus*. Mouth many-cleft. *Sow.* 22.

**hydrophorus*. Mouth entire. *Sow.* 23.

1966. PILOBOLUS. *Fungus* on a capillary stem, inflated and watery at top, with an hemisphaerical head elastically ejecting the seeds.

**crystallinus*. Head compressed, glutinous, black. *Sow.* 300.

**roridus*. Head globular, black. *Bolt.* 132. 4.

**urceolatus*. Yellowish, head roundish black. *Bolton.* 133. 1.

1967. PUCCINIA. *Fungus* cylindrical, filled with tailed seeds radiately disposed and escaping elastically.

simplex. Quite simple, obtuse. *Flor. Berl n.* 1186.

byssoides. Branches at first glabrous clavate and snowy, at length depressed hairy and grey. *Bull.* 415. 2.

1968. LYCOPERDON. *Fungus* becoming powdery and fibrous within: seeds attached to the fibres.

A. Opening at top and emitting the seeds; volvate or stipitate.

**califorme*. Wrapper many-cleft, spread: head depressed sphaeroid, brownish: stems and mouths numerous. *Sow.* 313.

**stellatum*. Wrapper many-cleft, spread: head smooth: mouth pointed, plaited. *Sow.* 312.

**fornicatum*. Wrapper 4-cleft, vaulted: head smooth: mouth obtuse, fringed. *Sow.* 198.

**recolligens*. Wrapper many-cleft, spread; segments equal: head sessile; mouth pointed. *Sow.* 80.

**cylindricum*. Wrapper with many ragged clefts: head cylindrical, sessile, brown. *With.*

**floriforme*. Wrapper many-cleft, spread: head globular, stem long, slender, round. *Bull.* 371.

**phalloides*. Volvate, stipitate: head deflected, campanulate, powdery, calyptered above. *Sow.* 390.

squamosum. Depressed-globular, pointed: mouth truncate: stem long, scaly. *Mich.* 97. 7.

gemmatum. Stipitate, nearly globular, closely covered with acute prickles. *Mich.* 97. 1.

muricatum. Sessile, pear-shaped, muricate outwardly: mouth roundish. *Mich.* 97. 5.

**equinum*. Brown-white: head globular, rather hollow beneath: stem solid, round. *Sow.* 292.

pistillare. Clavate, stem twisted. *Mant.*

carcinomale. Clavate, stem round, straight. *Suppl.*

**pedunculatum*. Head globular, smooth: mouth cylindrical, entire: stem long, hollow. *Bull.* 294.

**verrucosum*. Depressed-spherical, olive-brown, pitted: seeds brown: stem short. *Bull.* 24.

**parasiticum*. Nearly globular, tawny, brittle: seeds black: stem round, whitish. *Woodward*

**aurantiacum*. Depressed-spherical, greenish or orange, wrinkled at the opening with obtusely emarginate segments: stem short, *Sowerby* 268.

B Opening at top, and emitting the seeds: stemless, terrestrial.

**Proteus*. Roundish, white or greyish becoming brown, opening with a rent: seeds dark. *Sowerby* 332. Puckfit.

**Bovista*. Snowy becoming black spherical: outer coat downy, inner coriaceous: seeds black. *Sow.* 331. Puff-ball.

**defossum*. Globular, coriaceous, dirty-white, half buried: coats turned in when open: seeds brown. *Sow.* 311.

**graniforme*. Small, globular, black. *Sow.* 270.

C. Opening at top and emitting seeds: stemless, parasitical.

**variolosum*. Outer coat tawny, deciduous: powder black. *Sow.* 271.

**gossypinum*. Pear-shaped, white, becoming brown, cottony: seeds brown. *Bull.* 435. 1.

**pisiforme*. Globular, rough, tawny, perforated. *Jacq. Anst.* 1. 7.

**cinereum*. Globular, rough, branny, blue-grey: seeds large, black, mixed with white flexuous fibres. *Batsch* 159.

**epidendrum*. Case and powder purple. *Sowerby.* 52. 400. 2. 3.

**radiatum*. Obovate, brown: root villous, whitish, radiate in every direction. *Sow.* 145.

**fuliginosum*. Ovate, sooty. *Sow.* 258.

**acariforme*. Obovate, brown: root membranous, circular, yellowish, with jagged segments. *Sow.* 146.

1969. SPUMARIA. *Follicles* branched, filled with femi-
nerous fibres, covered with a cellular branny bark.

**Mucilago*. Spumaria. *Sow.* 280.

1970. FULIGO. *Fungus* with a cellular-fibrous bark; the
fibres penetrating in a reticulate manner through the semi-
nal mass.

**septica*. Yellow, laciniate. *Flor. Dan.* 1. 778.

capitata. Yellow, capitate. *Hall. Helv.* n. 2135

panicea. White, sessile, grain-like, *Gled. fung.*

1971. STEMONITIS. *Fungus* with a fugacious or membran-
ous bark, filled with seminitrous fibres elastically expanding
themselves.

A. Receptacle subulate, penetrating the threads.

**nuda*. Head long, red-brown or blackish. Sow. 50.

**Embolus*. Head long, brown: stem brown. Hall. Helv. 1. 1.

**nigra*. Head rounded, totally black. Persoon.

B. Seminiferous threads on an hemispherical receptacle.

**denudata*. Scarlet: receptacle striate beneath; feminiferous threads oblong-ovate. Sow. 50.

**recutita*. Whitish: threads ovate: stem short.

**nutans*. Yellowish: stem very short: head very long, decumbent. Sow. 250.

**nivea*. Globular, snowy. stem yellowish. Hoffm. 4. 1.

**sphærocephala*. Globular, grey: stem black. Sow. 240.

**sulfuracea*. Nearly globular, brown, glabrous: stem filiform: seeds, green. Batsch. 178.

**fulva*. Globular, scarlet: seeds brown. Bolton. 93. 3.

**flava*. Globular: threads yellow. Bolton. 94. 1.

**hemisphærica*. Convex above, flat beneath, whitish, opening in the middle: stem conic: fibres brown. Sow. 12.

**olivacea*. Globular, totally olive. Bolt. 94. 2.

C. Bark membranous, irregularly opening: stipitate.

**pyriformis*. Pear-shaped, yellow: stem short. Bull. 417. 2.

**fascicularis*. Fasciated, steel-blue: head somewhat turbinate: stem very short. Persoon.

**rufa*. Globular, red, opening horizontally in the middle; stem short Bull. 368. 1.

**antiades*. Globular, footy-yellow: stem thickish, grooved, slightly branched. Bull. 368. 2.

**ficoides*. Black-brown: head long turbinate; stem turgid at the base: seeds yellow. Sow. 279.

**turbinata*. Clustered, dusky-yellow, turbinate, opening at top, gradually tapering downwards. Sow. 85.

**aurantia*. Yellow without, black-brown within: stem black, striate, inflated at the base. Bull. 484. 2.

**globulifera*. Orbicular: seeds black-brown, mixed with differently coloured globules. Bull. 484. 3.

**viridis*. Orbicular, umbilicate, granular, greenish: seeds blackish-brown: stem filiform. Bull. 407.

**bicolor*. Orbicular, umbilicate, granular, snowy: threads yellow: stem filiform. Bull. 407. 2.

**alba*. Globular, umbilicate, granular, grey: seeds and threads black: stem round, simple. Sow. 259.

D. Bark membranous, irregularly opening: stemless.

**vesparia*. Cylindrical, rufous: seeds red. Batsch. f. 172.

**vesiculosa*. Globular: seeds rusty-ochre. Batsch. 171.

bombacina. Nearly globular, entire ferruginous.

orbicularis. Orbicular, black, golden within. *Bull.* 417. 5.

fulphurea. Pear-shaped, sulphur: seeds paler. *Wigg.*

varia. Oblong, rather kidney-form, decumbent. *Perfoon.*

lumbricalis. Filiform, pale yellow. *Batsch.* 173.

1972. MICROCARPON. *Fungus* with a membranous case opening irregularly, filled with seminiferous filaments reticulately compact and affixed to the base.

nigrum. MICROCARPON. *Schrad.*

1973. CRIBRARIA. Case furnished with a double membrane, the outer-one thin and fugacious, inner-one reticulate: seeds without filaments, ejected through the foramina.

pallida. Cribraria. *Schrad.*

1974. RETICULARIA. *Fungus* roundish: case rigid, filled with seeds dispersed among reticulate filaments.

A. On a stem.

**fragilis*. Obovate, brown, shining: seeds black. *Sow.* 136.

**hemisphaerica*. Hemispherical: stem simple. *Bull.* 417. 1.

ramosa. Subglobular: stem branched. *Bull.* 380. 3.

utricularis. Ovate: stem very short, thin.

B. Stemless.

**Lycoperdon*. Purse-like, grey or brown: seeds black. *Sow.* 272.

**Lycagala*. Whitish, seeds brown. *Bolt.* 96. 1.

epixylon. Cushion-like, blackish-grey. *Bull.* 472. 1.

caesia. Cushion-like, blue-black becoming whiter. *Bull.* 270. 2.

complanata. Grey-blue, depressed, diffuse: seeds black: filaments white. *Batsch.* 170.

sphaeroidalis. Suborbicular, whitish. *Bull.* 446. 2.

angulata. Somewhat depressed, angular, white. *Pers.*

sinuosa. With 2 parallel flexuous laminæ. *Bull.* 446. 3.

nigra. White becoming black: seeds black. *Bull.* 380. 2.

1975. TUBIFERA. *Fungus* with cases superimposed on an expanded membrane and connected with each other: seeds nearly naked.

cylindrica. Cylindrical, ferruginous, with a pointed top at first snowy. *Bull.* 470. 3.

fragiformis. Cylindrico-clavate, rosy becoming rusty. *Bull.* 374.

ferruginosa. Glabrous, vesicular, variously coloured: seeds earthy-brown. *Flor. Dan.* 659. 2.

1976. ÆCIDIUM. *Fungus* with membranous cases glabrous both sides, filled with naked seeds not cohering.

A. Clustered.

cornutum. Yellow: cases long, curved, olive-grey. *Flor. Dan.* 838.

rhamni. Cylindrical, rosy: seeds orange. *Pers.*
cancellatum. Opening laterally, entire at top. *Fl. Dan.* 704.
berberidis. Orbicular, rather convex: cafes prominent and seeds yellow. *Jacq. Aust.* 1. t. 4. 1.

rubellum. Red: seed white. *Perfoon*.

**Tussilaginis*. Rather prominent, yellow: seeds orange. *Sow.*

B. *Solitary*.

Pini. Oblong-compressed: seeds orange. *Bot. Mag.* 4. t. 4. 12.

amorpha. Crowded, cylindrical: mouth reflected: seeds orange. *Perfoon*.

**Anemones*. Scattered, nearly globular. *Sow.* 53.

scutellatum. Scattered, whitish: seeds brown. *Schrank*.

pynolæ. Scattered, depressed: cafes and seeds yellow. *Perfoon*.

1977.SPHÆRIA. Cafes filled with roundish naked gelatinous seeds.

A. *Simple: cafes naked, solitary or clustered*.

**glauca*. Turbinate, glaucous becoming black, white within. *Bolt.* 120. 2.

**Brassicæ*. Deformed, black: flesh white. *Sow.* 393. 3.

**viridis*. Globular, green, granular. *Sow.* 375. 8.

**sanguinea*. Ovate, sanguineous, perforated. *Sow.* 254.

**Mori*. Clustered, scarlet, small. *Sow.* 255.

**gregaria*. Irregularly clustered, carmine. *Weig.* 2. 10. a.

**fragiformis*. Straw berry-like, rusty-red. *Sow.* 256.

**mammosa*. Hemispherical, never confluent, mostly solitary, olive-green, hairy. *Fl. Dan.* 1079.

**acuta*. Solitary, conic, minute. *Sow.* 119.

**bombardica*. Clustered, globular, black, shining. *Sow.* 372. 4.

B. *Simple: cafes imbedded, distinct or cohering*.

**decorticata*. Black, rather ovate, with a single conic tube pushing through the bark. *Sow.* 137.

**cirrhatæ*. Blackish, depressed spherical, discharging a waxy tendril-like substance. *Sow.* 138.

**tentaculata*. Solitary, ovate, black: tubes several, capillary, diverging, terminal. *Sow.* 120.

**coronata*. Clustered, ovate-oblong, black, ciliate. *Hoffm.*

**nigra*. Distinct, convex, thinning, black, partly imbedded in an uniform black ground. *Sow.* 393. 1.

C. *Compound: cafes several, imbedded*.

**depressa*. Clustered, black, shining, granular. *Sow.* 216.

**saturnus*. Black, in a white ring. *Sow.* 218.

**obducta*. Stemless, clustered, downy. *Bull.* 492. 1.

**nivea*. White, clustered, tubercled. *Sowerby* 219.

**maxima*. Large, convex, black, pustular. *Sow.* 338.

**fraxinea*. Black, roundish, convex dotted. *Sow.* 160.

**tuberculata*. Clustered, tubercled, brown. *Sow.* 374. 8.

**rugosa*. Clustered, globular, grey, rugged. *Bolt.* 123. 2.

1978. **HYSTERIUM**. *Fungus* sessile, hollow, with a transverse cleft at top: seeds globular, tailless, covering the disk.

candidum. Clustered, fusiform, papyraceous. *Tode.* 8. 62.

cæruleum. Scattered, oblong oval, crustaceous. *Tode.* 8. 60.

1979. **VERMICULARIA**. *Capsule* globular, sessile, filled with loose worm-shaped seminiferous bodies.

pseudosphaeria. Aggregate, granular, black: filaments naked, white. *Tode.* 6. 46.

pubescens. Scattered, pubescent, 2-coloured: filaments naked, hoary. *Tode.* 6. 47.

hispida. Pulvinate, scattered, black, bristly, volvate: filaments fugacious, whitish. *Tode.* 6. 48.

1980. **PYRENIUM**. *Fungus* globular, naked, entire, inclosing naked conglobate seeds like a nucleus.

lignorum. Scattered, white with a cottony bark: nucleus æruginous, mouldering. *Tode.* 3. 29.

aureum. Scattered, golden with a downy bark: nucleus orange, mouldering. *Tode.*

metallorum. Compressed, ascending, imbricate, hairy: nucleus harder. *Tode.* 6. 49.

terrestre. Aggregate, with a gelatinous pulp: nucleus waxy, a little receding. *Tode.* 6. 50.

1981. **TUBER**. *Fungus* nearly globular, fleshy, veiny internally.

**globulosum*. Globular, solid, muricate, blackish, without root. *Sow.* 309. Truffle.

**rubrum*. Red, long, scaly. *Bull.* 456.

**album*. Deformed, roundish, convex-gibbous, rugged, solid, whitish. *Sow.* 310.

1982. **SCLEROTIUM**. *Fungus* simple, globular-oblong, tough, hardish, opening at last in the centre, covered with an inseparable bark never opening above.

A. *Oval*.

**purpureum*. Perpendicular, glabrous, scattered. *Bolt.* 119. 1.

immersum. Decumbent, glabrous, equal. *Tode.* 1. f. 3. 4.

Mucor. Decumbent, aggregate. *Tode.* 1. 7.

B. *Globular or pear shaped*.

Semen. Blackish, scattered, becoming rugged. *Tode.* 1. 6.

radicatum. Scattered, produced at the base. *Tode.* 1. 8.

villosum. Aggregate, villous. *Tode.* 1. 10. 11.

subterraneum. Deformed, clustered, subterraneous. *Tode.*

complanatum. Pear-shaped, flat: stem short. *Tode.* 1. 9.

1983. UREDO. *Fungus* parasitical, consisting of mealy powder under the cuticle of plants.

A. Under the cuticle of leaves or stems.

**longissima*. Long, linear, straight, brown. Sow. 139.

**Frumenti*. Linear-oblong, black-brown. Sow. 140.. Blight.

**flava*. Nearly globular, yellow. Sow. 320

**Fabae*. Roundish, brown. Persoon.

**Thlaspi*. White, downy. Sow. 340.

**alnea*. Effuse, concealed, reddish-brown. Persoon.

B. Under the cuticle of the parts of fructification.

**Segetum*. Black, in the spikelets of grasses. Smut.

**Tragopogi*. Brown, on the receptacles of Tragopogon.

**violacea*. Violet, in the antheræ of sickly flowers.

1984. TUBERCULARIA. *Fungus* gelatinous: cap tubercled: stem thick, full, closely appressed, bearing the seeds on the upper surface.

**vulgaris*. Convex, rugged, with a slightly repand margin: stem inflated-globular. Bolt. 127.

**volvata*. Convex, rugged, with an appressed repand margin: stem conic, with a cup-shaped curtain. Tode. 4. 33

**fulcata*. Grooved, entire: stem crucible-form, united to the depressed head. Tode 4. 34.

**nigricans*. Scarlet, becoming black. Bull. 455. 1.

**fasciculata*. Fascicled, campanulate: stem round. Tode 4. 32.

1985. SPERMODERMIA. *Fungus* quite simple, globular, sessile, spongy: seeds crowded, supplying the place of a bark.

**clandestina*. Spermodermia. Tode. 1. 1.

1986. ACROSPERMUM. *Fungus* quite simple, nearly erect, emitting the seeds exteriorly from the tip.

**unguinosum*. Tufted, perpendicular, unctuous, purple, tumid at top. Tode. Berl. Nat. 4. 12.

**compressum*. Perpendicular, ovate-oblong, compressed, very rigid. Tode 2. 13.

**pyramidale*. Perpendicular, ovate with a point, very hard, solitary. Tode. 2. 14.

**siccum*. Milk-white, leathery, hollow, within. Schrank.

1987. STILBUM. *Fungus* aggregate, gelatinous, stipitate: head diaphanous, shining, solid, permanent, bearing the seeds externally.

**vulgare*. Sphaerical; stem round, thickish. Tode. 2. 16.

**bulbosum*. Sphaerical; stem taper, bulbous. Tode. 2. 17.

**rubicundum*. Ovate, compressed: stem taper. Tode 2. 18.

**minimum*. Ovate, compressed: stem capillary. Tode. 2. 19.

**pubens*. Ovate; stem thick and pubescent beneath. Tode 3. 21.

turbinatum. Turbinate; stem round, contracted at the head *Tode* 2. 20
 1988. ASCOPHORA. *Fungus* erect, on a setaceous stalk:
 head globular-oblong, inflated, opaque, elastic, bearing the
 seeds externally.

A. *Clustered on a common convex receptacle.*

limbiflora. Receptacle at length depressed: heads globular, nodding,
 deciduous: stems capillary, lax. *Tode* 3. 25.

disciflora. Heads long-ovate, deciduous. *Tode* 3. 26, 27.

articulata. Brownish-black: heads long, jointed, pointed at top.

Bull 504. 14.

B. *Detached.*

Mucedo. Aggregate: head spherical, bursting at the long stalk.

Bot. Mag. 4. 17.

fragilis. Crowded: head spherical, bursting in the middle: stem rather short. *Tode* 3. 23.

stilbum. Ovate, shining: stem short. *Tode* 3. 24.

ovalis. Oval, becoming rugged and opening many ways: stem rather long. *Tode. Berl. Nat.* 3. 4 4--6.

1989. CHORDOSTYLUM. *Fungus* tenacious, on a very long tough slightly branched stem: head globular, somewhat deciduous, bearing the seeds.

Clavaria. Erect, simple: stem capillary, glabrous, flexuous: head pear-shaped, leathery. *Tode* 7. 55.

capillare. Erect, scattered: stem capillary, glabrous, undivided: head spherical, mouldering. *Tode* 6. 52.

byssoides. Erect, aggregate: stem capillary, weak, branched. *Tode* 7. 53

hispidulum. Creeping, bristly: shoot capillary, decumbent, branched: capsules obovate, immersed. *Tode* 7. 54.

filiforme. Creeping, yellow, pubescent: stem very slender, with white hairy tips. *Bull* 448. 1.

1990. MUCOR. *Fungus* fugacious: heads at first diaphanous, becoming opaque, on simple or branched stems.

**aquosus*. Globular, watery: seeds roundish: stem long, transparent.

Pet. Gaz. 51. 7.

minimus. Minute, white: head nodding. *Mich.* 95. 1.

**Mucedo*. Globular: stem simple, grey. *Sow.* 378 5--7.

**Botrytis*. Branched, globular, clustered. *Sow.* 359.

**entomorphizus*. Simple or branched: heads nearly spherical, granular, brown *Dicks* 3. 3.

**caseus*. Roundish, white yellow or red: stem short. *Bull.*

**aurantius*. Branched, creeping, crustaceous: seeds few, roundish, scattered, orange. *Bull.* 504. 5.

**chrysospermus*. Tufted, very fine, yellow: stems erect: seeds roundish, whitish-gold. *Sow.* 378. 13.

**lignifRACTus.* White or green, in spots: stems branched, entangled: seeds roundish, scattered. *Sow.* 378, 14.

**Erisiphe.* Sessile, white: heads brown. *Bull.* 504. 12. Mildew.

**granulosus.* Sessile, blackish. *Bull.* 504. 13.

1991. HYDROPHORA. Fungus globular, watery; on a nearly erect capillary stem.

minima Colourless, stem yellowish. *Tode.* 8. 68.

tenella. Colourless, stem grey. *Tode.*

stercorea. Head and stem dirty yellow. *Tode.*

1992. PERICONIA. Fungus globular: seeds sessile deciduous, every where clothing the head and stem.

lichenoides. Periconia. *Tode.* 8. 61.

1993. GRANULARIA. Fungus roundish, filled with granulations immersed in a mucilage.

pisiformis. Granularia. *Willd. Bot. Ann.* 1. 1. 1.

1994. MEDUSULA. Fungus solid, globular, stipitate, crowded: seeds external, filiform, flexile, colliquescent.

labyrinthica. Medusula. *Tode Fung.* 3. 28.

1995. MONILIA. Consisting of moniliform filaments clustered into a head.

A. Stipitate.

**crustacea.* Spikes digitate. *Bull.* 504. 11.

**caespitosa.* Branched: spikes ternate. *Bolt.* 132. 2.

alba. White, stem jointed. *Hall. Helv. n.* 2155.

**glauca.* Hoary, villous, globular: stem short. *Bull.* 504. 10.

B. Sessile.

schroleuca. Globular, ochraceous, filled with radiant down.

Hall. Helv. n. 2152.

**leprosus.* Setaceous, heads radical. *Mich.* 91. 5.

1996. MUCILAGO. Consisting of most simple fugacious filaments.

plumosa. Snow-white, feathery. *Hall. Helv.*

caespitosa. Yellow, feathery. *Wigg. fl. Hals. p.* 112.

cinerea. Grey; tufted, branched and simple. *Hall. Helv.*

miniata. Deep red, villous. *Hall. Helv. n.* 2132.

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<i>Thymbra</i>	905	<i>Trifolium</i>	1239
<i>Thymus. Thyme</i>	928	<i>Triglochin</i>	589
<i>Triacella</i>	707	<i>Trigonella</i>	1248
<i>Trieta</i>	846	<i>Trigonia</i>	1140
<i>Tillaea</i>	252	<i>Triguera</i>	289
<i>Tillandsia</i>	518	<i>Trilix</i>	837
<i>Tinnia</i>	1726	<i>Trillium</i>	591
<i>Tinnibby grass</i>	138	<i>Triopteris</i>	732
<i>Tithonia</i>	1454	<i>Trostema</i>	346
<i>Toad flax</i>	950	<i>Tripacum</i>	1536
<i>Tobacco</i>	352	<i>Triptilion</i>	1307
<i>Tofieldia</i>	589	<i>Triticum</i>	174
<i>Tolmifera</i>	672	<i>Triumsetta</i>	764
<i>Tormentilla, Tormentil</i>	830	<i>Trixis</i>	1474
<i>Tonex</i>	759	<i>Trollius</i>	886
<i>Tonza Bean</i>	1137	<i>Trophis</i>	1617
<i>Tonsella</i>	83	<i>Tropaeolum</i>	602
<i>Towh-ach-tree</i>	1619	<i>Trusse</i>	1848
<i>Towth-wort</i>	942. 1019	<i>Trumpet flower</i>	964
<i>Toplis</i>	1302	<i>Trumpet-tree</i>	1606
<i>Tordylium</i>	459	<i>Tubercularia</i>	1849
<i>Tonemia</i>	958	<i>Tuber</i>	1848
<i>Tortula</i>	1720	<i>Tubifera</i>	1846
<i>Towth-wood</i>	1833	<i>Tulbagia</i>	525
<i>Tournesortia</i>	284	<i>Tulipa. Tulip</i>	542
<i>Tourettia</i>	957	<i>Tulip tree</i>	871
<i>Towar mustard</i>	1034	<i>Tupelo</i>	1661
<i>Tozzia</i>	943	<i>Turkey berry tree</i>	371
<i>Traba</i>	240	<i>Turnep</i>	1035
<i>Trachelium</i>	324	<i>Turnera</i>	490
<i>Tradescantia</i>	520	<i>Turnsole</i>	270

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<i>Turpentine tree</i>	1519	Ulva	1796
Turreea	681	<i>Umbellod plants</i>	452
Turritis	1034	Uniola	154
Tussilago	1386	Unona	875
Tympanis	1837	Unxia	1473
Tupha	1546	Volkameria	923
Vaccinum	618	Volutella	1242
Vahlia	451	Urania	517
Valantia	1647	Uredo	1849
Valentina	615	Urena	1107
Valeriana. <i>Valerian</i>	77	Urtica	1452
Vallea	860	Ustria	22
Valtisneria	1606	Uvaria	872
Vandellia	980	Uvularia	541
Vangueria	341	Wachendorfia	101
Varronia	372	Wahlbomia	886
Vatica	762	<i>Wake-robin</i>	1573
Ucrania	336	Waldsteinia	805
Velezia	446	Walkeria	392
Vella	1005	<i>Walking cane</i>	572
Velleia	334	<i>Wall-crefs</i>	1032
Veltheimia	566	<i>Wall-flower</i>	1027
Ventilago	380	Wallenia	210
<i>Venus' comb</i>	746	<i>Walnut-tree</i>	1578
<i>Venus's fly-trap</i>	686	Waltheria	1049
Veratrum	1631	<i>Wart-crefs</i>	1012
Verbascum	349	<i>Wart-wort</i>	779
Verbena. <i>Vervain</i>	54	<i>Water-chickweed</i>	177
Verbesina	1448	<i>Water-crefs</i>	1022
Verea	649	<i>Water-dropwort</i>	474
Vermicularia	1848	<i>Water-hemlock</i>	475
Vernonia	1308	<i>Water leaf</i>	291
Veronica	36	<i>Water lily</i>	843
<i>Vetch</i>	1182	<i>Water millfoil</i>	1572
Viburnum	485	<i>Water parsnep</i>	472
Vicia	1182	<i>Water plaintain</i>	592
Villaria	1621	<i>Water purslane</i>	582
Vinea	517	<i>Water soldier</i>	1630
Viola. <i>Violet</i>	397	<i>Watet starwort</i>	25
<i>Viper's buglos</i>	281	<i>Water wort</i>	650
Virecta	340	Webera	414
<i>Virginian hemp</i>	1621	Wedelia	1474
<i>Virgin's bower</i>	878	<i>Weeping willow</i>	1607
Viscum	1616	Weigelia	297
Visnea	781	Weinmannia	640
Vitex	995	<i>Weld</i>	770
Vitis <i>Vine</i>	402	<i>Welsh onion</i>	538
Vitmannia	607	Wendlandia	591
Vittaria	1693	Westringia	904
Ulex	1154	<i>Weymouth pine</i>	1583
Ulmus	444	<i>Wheat</i>	174

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<i>Whin</i>	1152	<i>Xanthorrhiza</i>	556
<i>White beam tree</i>	809	<i>Xanthoxylum</i>	1619
<i>White cedar</i>	1585	<i>Xeranthemum</i>	1372
<i>White bellebore</i>	1641	<i>Xerophyta</i>	519
<i>White borehound</i>	921	<i>Ximenesia</i>	1423
<i>White mangrove</i>	347	<i>Ximena</i>	614
<i>White rot</i>	454	<i>Xiphidium</i>	101
<i>White thorn</i>	806	<i>Xylocarpus</i>	610
<i>Whitlow grass</i>	1006	<i>Xylomelum</i>	194
<i>Whortleberry</i>	618	<i>Xylophylla</i>	489
<i>Wiborgia</i>	1139	<i>Xelopia</i>	874
<i>Wild basil</i>	926	<i>Xyloima</i>	1630
<i>Wild Liquorice</i>	1222	<i>Xylostroma</i>	1837
<i>Wild Rocket</i>	1022	<i>Xyris</i>	103
<i>Willichia</i>	81	<i>Yarrow</i>	1441
<i>Willow</i>	1606	<i>Yellow centaury</i>	615
<i>Willow herb</i>	606, 766	<i>Yellow dead nettle</i>	917
<i>Willughbeia</i>	416	<i>Yellow root</i>	887
<i>Winter-berry</i>	576	<i>Yam</i>	1664
<i>Winter-cherry</i>	354	<i>Yew tree</i>	1633
<i>Wintera</i>	867	<i>Yacca</i>	566
<i>Winter's bark</i>	867	<i>Zacintha</i>	1306
<i>Witch hazel</i>	947	<i>Zamia</i>	1632
<i>Witheringia</i>	221	<i>Zanonia</i>	1622
<i>Witfenia</i>	101	<i>Zannichellia</i>	1532
<i>Woad</i>	1005	<i>Zea</i>	1536
<i>Wolf's bane</i>	865	<i>Zedcary</i>	17
<i>Woodbine</i>	344	<i>Zerumbet</i>	17
<i>Wood sorrel</i>	740	<i>Zieria</i>	236
<i>Woodwardia</i>	1695	<i>Zinnia</i>	143
<i>Worm grass</i>	293	<i>Zizania</i>	1566
<i>Wormwood</i>	1358	<i>Ziziphora</i>	56
<i>Wound-wort</i>	918	<i>Ziziphus</i>	379
<i>Wulfenia</i>	41	<i>Zoegea</i>	1461
<i>Wurmbea</i>	589	<i>Zostera</i>	1534
<i>Wyck basil</i>	1579	<i>Zwingera</i>	685
<i>Xanthium</i>	1561	<i>Zygophyllum</i>	683
<i>Xanthorrhiza</i>	510		

ERRATA.

p 571, line 10, for flower read flour
p 1273, after Siegesbeckia insert 1562, Eclip-
ta. Receptacle chaffy: down o: florets of
the ray 4-cleft
p 1274, l. 41, for Muffinea read Muffinia
p 1275, l. 27, for naked read chaffy
p 1302, l. 17, for 1972, read 1072
p 1491, l. 20, for Chamaleon r. Chamaleon

p 1492, l. 36, for neutra read neuter
p 1494, for Gyandriar Gynandria
p 1495, l. 3, after 1624, insert Orchis
l. 23, for on filiform r. on a filiform
p 1585, l. 35, for calxy read calyx
p 1590, l. 36, for dvaricatum r. divaricatum
p 1672, l. 19, for Hepaticæ read Hepaticæ
p 1673, l. 36, for concealed read cancelled



